

LEFOO

SINCE 2000

Pressure / Differential Pressure / Temperature
Temperature & Humidity / Flowmeter / Gas / Air Velocity

2025

www.lefoo.com

INPROCESS
TENDENCIAS GLOBALES, SOLUCIONES LOCALES



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LEFOO

LEFOO was founded in 2000, has been developed to be a integrated manufacturing enterprises of R&D, manufacturing, and sales. LEFOO group has 3 branch companies and divisions which include LEFOO Industrial Co.,Ltd, LEFOO Controls Co., Ltd, LEFOO Sensing Technology Co., Ltd,. LEFOO is committed to become the leading and world-class enterprise in R & D and manufacturing, to supply professional mechanical structure controls , electronic digital sensing controls, micro pumps, which can be widely used in environmental control , mechanical equipment, intelligent equipment, home appliances , medical , power, Internet of things , data center, water treatment, water purification, and other industrial fields.

LEFOO has passed ISO9001, ISO16949, ISO45001 , ISO 14001 management system certifications and CE, 3C, UL, CSA, RoHS , and safety certifications by authoritative TUV and SGS, with more than 130 patents in total. Over the past 20 years, LEFOO's market throughout more than 80 countries and regions in North America, Europe, Asia, South America, Africa , Australia. As a professional and trustworthy supplier , LEFOO has cooperated and established strategic partnership with many great companies and world famous brand.



Pressure Switch

01	LF08 Small Multi-purpose Pressure Switch,0.2~45bar
02	LF08A High Current Pressure Switch,0.2~45bar
03	LF08D Small Multi-purpose Pressure Switch,60~250bar
04	LF08E Pressure Switch for Water Purifier
05	LF08F Pressure Switch
06	LF08H Small Multi-purpose Pressure Switch
07	LF08M Small Multi-purpose Pressure Switch
08	LF08V Small Vacuum Pressure Switch,-0.5~-0.8bar
10	LF10 Air Compressor Pressure Switch,25~200psi
11	LF10-L Air Compressor Pressure Switch,30~175psi
12	LF10-W Pump Pressure Switch,15~150Psi
13	LF12 Air Pressure Switch
14	LF15 Pressure Switch
15	LF16 Pump Pressure Switch,20~100Psi
16	LF17 Air Compressor Pressure Switch,15~500Psi
17	LF17-W Pump Pressure Switch,14~250Psi
18	LF18 Air Compressor and Pump Pressure Switch ,1.0~16.0bar
19	LF19 Air Compressor and Pump Pressure Switch,2.5~12.5bar
20	LF20 Extended Duty Pressure Switch,0.5~150Psi
21	LF20-H Ultra Duty Pressure Switch,10~400Psi
22	LF20-V Vacuum Pressure switch,1.1~22in/Hg
23	LF20-I Pressure switch
24	LF25 Vacuum Pressure Switch,0.2~9.0bar
25	LF30 Air Differential Pressure Switch,0.4~8.0mbar
26	LF31 Air Differential Pressure Switch,0.15~34inW.C
27	LF32 Air Differential Pressure Switch,20~5000Pa
28	LF35 Air Differential Pressure Switch,0.3~30mbar
29	LF37 Liquid Level Pressure Switch,2~60 in W.C.
30	LF40-01 Air Actuated Pressure Switch,0.25~15psi
31	LF40-B Pressure Switch
32	LF40-C Pressure Switch
33	LF55 Pressure Switch For Refrigeration System,-0.5~42bar
34	LF55V Vacuum Pressure Switch
35	LF55E Pressure Switch
36	LF55T Thermostat
37	LF58 Pressure Switch For Refrigeration System ,-0.2~32bar
38	LF5D Oil Differential Pressure Switch For Refrigeration System,0.5~6.0bar

Pressure Switch and Refrigeration Parts

39	LF56 Pressure Switch
40	LF52 Differential Pressure Switch
41	LF52A Differential Pressure Switch
42-43	FS5 Series Liquid Flow Switch
44-45	FS20 Series Liquid Flow Switch
46	FS211 Electronic Flow Switch
47	FS213 Electronic Flow Switch
48	TS Temperature Controller
49	TSD Differential Temperature Controller
50	TSH Dual Temperature Controller
51	LFS-01 Miniature Pressure & Vacuum Switch,-800~-5mbar,10~600mbar
52	LFS-02 Miniature Pressure & Vacuum Switch,-800~-5mbar,5~800mbar
53	LFS-03 Miniature Pressure & Vacuum Switch,-800~-15mbar,15~2500mbar
54	LF702 Pressure Switch
55	LF708 Pressure Switch
56	LF708A Pressure Switch
57	LF727 Pressure Switch
58	LF727A Pressure Switch
59	LF727B Pressure Switch
60	LF730 Pressure Switch
61	LFB Differential Pressure Gauge
62	LFBMR Differential Pressure Gauge
63-64	LFZ Standard Rotary Actuator
65-66	LFZ-Q Fast Running Rotary Actuators
67-68	LFZ-T Spring Reset Damper Actuator
69	LFZ-DQ Electrical Regulating Ball Valve
70-71	LFSV-D Solenoid Valve
72-73	LFSV-K Solenoid Valve
74-75	LFDF Solenoid Valve
76	LFMBV Electric Ball Valve
77	LFSV-M Solenoid Valve
78	LFBV Ball Valve
79	LFSG Sight Glass
80	LFCV Charging Valve
81	LFTEV Thermostatic Expansion Valves
82	LFDBV Discharge-Bypass Valves
83	LFDCV Magnetic Check Valve

Low Differential Pressure Transmitters

84

LFM108

Economical Differential Pressure Transmitter,-10000~10000Pa

85

LFM11

Differential Pressure Transmitter,-10000~10000Pa

86

LFM33

Differential Pressure Transmitter/Controller,-10000~10000Pa

87

LFM52

Differential Pressure Transmitter,-10000~10000Pa

88

LFM53

High Accuracy Differential Pressure Transmitter,-100~100Pa

89

LFM55

Embedded Differential Pressure Transmitter(SS Panel),-100~100Pa

90

LFM57

Atmosphere Pressure Transmitter,15kPa~130kPa

91

LFM73

Multifunctional DP Transmitter/Controller,-10000~10000Pa

92

LFM751

Intrinsic Safety Differential Pressure Transmitter,-10000~10000Pa

93

LFM76

Explosion-proof DP Transmitter(dual output), $\pm 100\text{Pa} \sim \pm 10000\text{Pa}$

94

LFM77

Explosion-proof DP Transmitter(single output), $\pm 100\text{Pa} \sim \pm 10000\text{Pa}$

Pressure Transmitter

95

LFT2000

Universal Pressure Transmitter ,100kPa~0.3MPa...6MPa,0~0.3MPa...60MPa

96

LFT2010

High Accuracy Pressure Transmitter ,0~0.1...-4MPa

97

LFT2020

Sanitary Flat Diaphragm Pressure Transmitter ,-100kPa...0~10kPa...6MPa

98

LFT2030

High Temperature Pressure Transmitter ,-100kPa...0~10kPa...60MPa

99

LFT2050

Differential Pressure Transmitter ,0~10kPa ... 3.5MPa

100

LFT2060

Refrigeration Pressure Transmitter ,0~10...50Bar

101

LFT2080

Anti-corrosion Pressure Transmitter,-100kPa~100kPa...2MPa

102

LFT2600

Refrigeration Pressure Transmitter,0~10...50Bar

103

LFT2700

Flat Diaphragm Pressure Transmitter ,-100kPa...0~20kPa...35MPa

104

LFT2800

Pressure Transmitter,-100kPa...0~1kPa...60MPa

105

LFT3000

Submersible Level Transmitter ,0~0.5...200mH₂O

106

LFT3100

Temperature&Pressure Transmitter,0~10kPa ... 70MPa

107

LFT3200

Temperature&Level Transmitter ,0~1...200mH₂O

108

LFT6100

Digital Pressure Gauge ,-100kPa...0~100kPa...60MPa

109

LFT6200

Explosion-proof Pressure Transmitter,-100kPa...0~5kPa...60MPa

110

LFT6700

Smart Pressure Transmitter,0~10...60MPa

111

LFT221

Water Pressure Transmitter,0~1MPa

112

LFT6800

Digital Display Pressure Transmitter,-100kPa..0~5kPa...60MPa

113-115

LFT700

Smart Pressure Transmitter

Differential Pressure Transmitters

116-118

LFT710

Smart DP Transmitter

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LFT720A

Flange-mounted DP Transmitter

124-128

LFT720B

Remote Flange DP Transmitter

Digital Pressure Switches

- 129 **LFDS62**
Digital Pressure Switch,0~10Bar、 0~16Bar
- 130 **LFDS63**
Digital Pressure Switch
- 131 **LFDS65**
Digital Pressure Switch

Temperature&humidity Temperature Transmitters

- 132 **LFH10**
Temperature&Humidity Transmitter
- 133 **LFH10A**
Economical Temperature&Humidity Transmitter
- 134 **LFH20**
Room Temperature&Humidity Transmitter
- 135 **LFH21**
Temperature&Humidity Controller
- 136 **LFH30**
High Accuracy Temperature&Humidity Transmitter
- 137 **LFH51**
Probe Type Temperature&Humidity Transmitter
- 138 **LFH52**
Outdoor Temperature&Humidity Transmitter
- 139 **LFH60**
Magnetic Temperature&Humidity Transmitter
- 140 **LFH70**
High-temperature Temperature&Humidity Transmitter
- 141 **LFW10**
Temperature Transmitter
- 142 **LFW20**
Armored Temperature Transmitter
- 143 **LFW21**
Integrated Temperature Transmitter

Gas Detecting Transmitters

- 144 **LFG101**
Wall-mounted Carbon Monoxide Transmitter
- 145 **LFG103**
Room Carbon Monoxide Transmitter
- 146 **LFG201**
Wall-mounted Carbon Dioxide Transmitter
- 147 **LFG202**
Duct Carbon Dioxide Transmitter
- 148 **LFG203**
Room Carbon Dioxide Transmitter
- 149 **LFG303**
Room Dust PM2.5&PM10 Transmitter/Controller
- 150-151 **LFG60**
All-In-One Air Quality Transmitter

Air Velocity Transmitters

- 152 **LFS10**
Air Velocity Transmitter
- 153 **LFS11**
Low-speed Air Velocity Transmitter
- 154 **LFS71**
Explosion-proof Air Velocity Transmitter(single output)
- 155 **LFS72**
Explosion-proof Air Velocity Transmitter(dual output)

Flowmeters

- 156-157 **LFLD**
Electromagnetic Flowmeter
- 158-159 **LFLUGB**
Vortex Flowmeter
- 160-161 **LFLWGY**
Turbine Flowmeter

Solenoid Valve

- 162 **SVD20**
Inlet Solenoid Valve
- 163 **LFV18**
Cold Water Inlet Solenoid Valve
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Cold Water Inlet Solenoid Valve
- 165 **LF42**
Water dispensers high and low pressure switch
- 166 **LFSV20-B**
Drainage Solenoid Valve

LF08

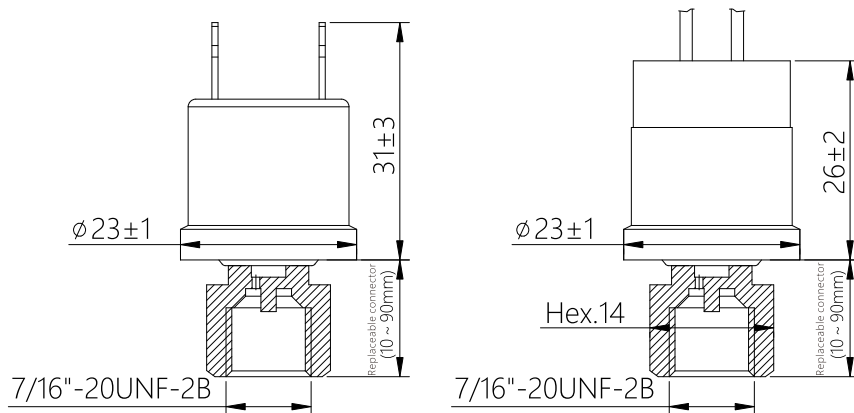
Small multi-purpose Pressure switch



The LF08 switches are fixed set point, factory calibrated pressure switches. It is automatic reset, and can be Normally open or normally close contacts. All metallic wetted components make the LF08 switch compatible with a multitude of chemicals in liquid or gas form. It is offered numerous types of electrical terminations from different size and style push on terminals to wire leads with an array of standard industry connectors. In house machining capabilities allows Lefoo to offer a wide variety of pressure fitting from different thread types and sizes to units with internal deflator and copper tubing for sawing operations.



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Note: Replaceable connector can be found in Appendix 1

LF08 Order Ref NO

Dimension in : mm

LF08-1 0 1 C-0.2-0.3MPa

A B C D Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back
②Less than 1.5MPa can be no pressure differential on customers' request.

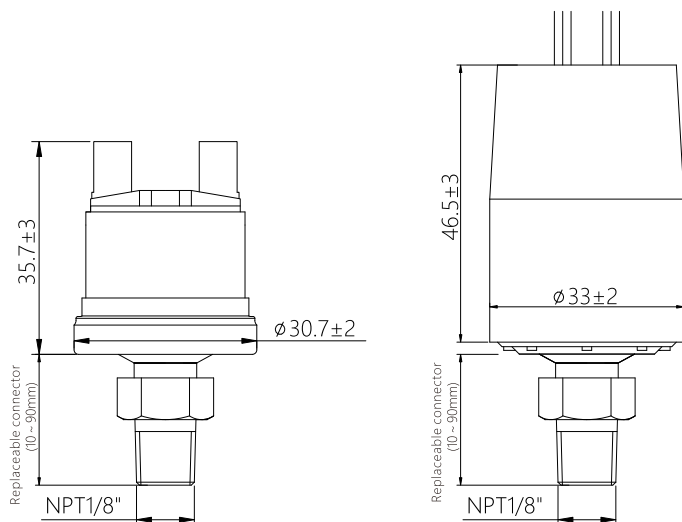
Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	C-SPST(NC)
2	2-Blade type	2-M thread (below M10)	2-Brass	O-SPST(NO)
3	/	3-M thread (above M12)	/	/
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

Specification

MODEL	LF08			
Pressure setting range (gauge pressure)	0.02MPa to 6.5MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa			
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value	Tolerance	Withstand maximum pressure	
	0.02 ≤ <0.6MPa	±0.03MPa	1.5MPa	
	0.6 ≤ <1.0MPa	±0.05MPa	2.0MPa	
	1.0 ≤ <2.0MPa	±0.07MPa	3.0MPa	
	2.0 ≤ <3.0MPa	±0.10MPa	4.0MPa	
	3.0 ≤ <4.0MPa	±0.15MPa	5.5MPa	
	4.0 ≤ <5.0MPa	±0.20MPa	6.5MPa	
	5.0 ≤ <6.5MPa	±0.25MPa	8.0MPa	
Burst pressure (gauge pressure)	34.5MPa×1min,no damage, leakage			
Operating temperature	Ambient temperature		Medium temperature	
	Low pressure:-40℃~65℃	High pressure:-40℃~120℃	Low pressure:-40℃~80℃	High pressure:-40℃~135℃
Electrical parameter	24~250VAC/0.02~6A;8~36VDC/0.02~3A;600VAC/0.02~3A(UL)			
	120VAC/6A;250VAC/6A(CE)		250VAC/3A(CQC)	
	Note: The maximum current is 0.5A if it's no differential pressure version to ensure electrical life			
Medium	Air, water, oil, lubricants, refrigerants and other similar hydrocarbons			
Service life	Mechanical life:100,000		Electrical life:30,000(UL,CE)	
IP level	Ip67			
Certification	CQC,CE,UL			

Conversion: 1bar=14.5psi 1MPa=10bar

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Note: Replaceable connector can be found in Appendix 1

Dimension in : mm

LF08A Order Ref NO

LF08A-1 01C-0.2-0.3MPa

A B C D Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back

②No pressure differential is not available

LF08A

High current
Pressure switch



The LF08A switches are fixed set point, factory calibrated pressure switches. It is automatic reset, and can be normally open or normally close contacts. All metallic wetted components make the LF08A switch compatible with a multitude of chemicals in liquid or gas form. It is offered numerous types of electrical terminations from different size and style push on terminals to wire leads with an array of standard industry connectors. In house machining capabilities allows Lefoo to offer a wide variety of pressure fitting from different thread types and sizes to units with internal deflator and copper tubing for sawing operations.

Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	C-SPST(NC)
2	2-Blade type	2-M thread (below M10)	2-Brass	O-SPST(NO)
3	/	3-M thread (above M12)	/	D-SPDT
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

Specification

MODEL		LF08A	
Pressure setting range (gauge pressure)		0.01MPa to 6.5MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa	
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value	Tolerance	Withstand maximum pressure
	0.1≤<0.6MPa	±0.03MPa	1.5MPa
	0.6≤<1.0MPa	±0.05MPa	2.0MPa
	1.0≤<2.0MPa	±0.07MPa	3.0MPa
	2.0≤<3.0MPa	±0.10MPa	4.0MPa
	3.0≤<4.0MPa	±0.15MPa	5.5MPa
	4.0≤<5.0MPa	±0.20MPa	6.5MPa
	5.0≤<6.5MPa	±0.25MPa	8.0MPa
Burst pressure (gauge pressure)		34.5MPa×1min, no damage, leakage	
Operating temperature		Ambient temperature	
		Low pressure:-40°C~65°C	High pressure:-40°C~120°C
		Medium temperature	
		Low pressure:-40°C~80°C	High pressure:-40°C~135°C
Electrical parameter		120VAC/20A, 250VAC/10A	
Medium		Air, water, oil, lubricants, refrigerants and other similar hydrocarbons	
Service life		Mechanical life:100,000	
IP level		Electrical life:30,000	
		Ip67	

Conversion:1bar=14.5psi 1MPa=10bar

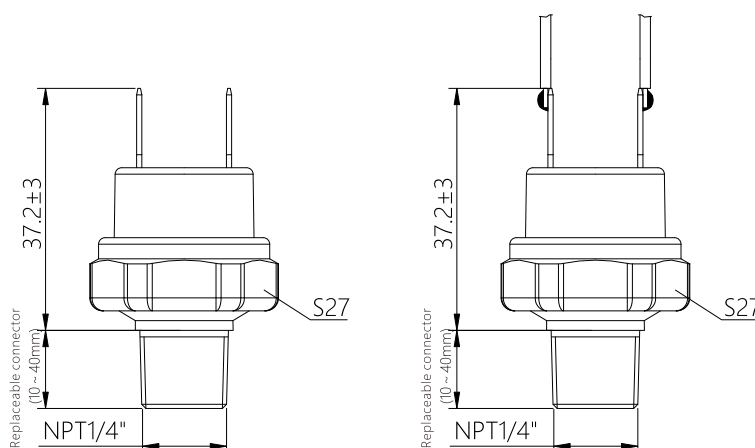
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LF08D

Small multi-purpose
Pressure switch



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Note: Replaceable connector can be found in Appendix 1

LF08D series pressure switch is a switch with automatic reset design. With a wide pressure setting range, it can be applied to different requirements. It is used for air, water pressure control, electrical refrigeration equipment, indoor air conditioners or internal circuits of indoor cooling devices, domestic cooling systems, and internal circuits of long-distance outdoor condensing devices. Typical applications: High-pressure shutdown switch/air-conditioning/freezing equipment.

LF08D Order Ref NO

Dimension in:mm

LF08D-1 01C-0.2-0.3MPa

A B C D

Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back
②Less than 0.6MPa can be no pressure differential on customers' request.

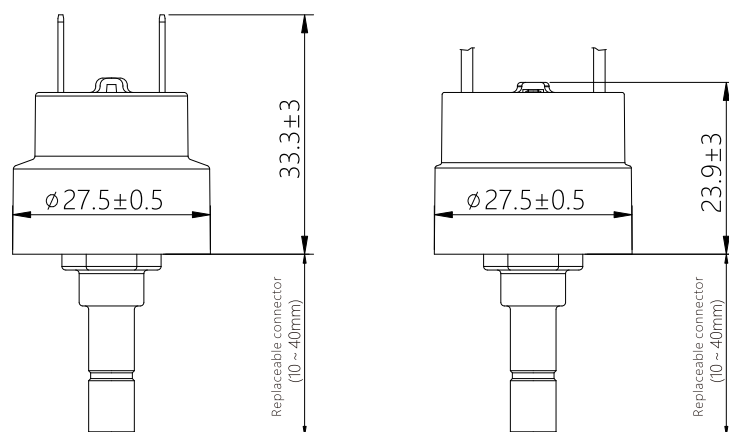
Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Galvanized iron	C-SPST(NC)
2	2-Blade type	2-M thread (below M10)	/	O-SPST(NO)
3	/	3-M thread (above M12)	/	/
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	/	/	/

Specification

Model	LF08D			
Pressure setting range (gauge pressure)	0.02MPa to 2.0MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa			
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value		Tolerance	Withstand maximum pressure
	0.02≤ <0.6MPa		±0.03MPa	1.5MPa
	0.6≤ <1.0MPa		±0.03MPa	2.0MPa
	1.0≤ <2.0MPa		±0.05MPa	3.0MPa
Burst pressure (gauge pressure)	5MPa×1min,no damage, leakage			
Operating temperature	Ambient temperature		Medium temperature	
	Low pressure:-40℃~65℃	High pressure:-40℃~80℃	Low pressure:-40℃~80℃	High pressure:-40℃~100℃
Electrical parameter	24~250VAC/0.02~15A;8~36VDC/0.02~15A(UL)			
	120VAC/15A;250VAC/15A(CE)			
	Note: The maximum current is 0.5A if it's no differential pressure version to ensure electrical life			
Medium	Air, water			
Service life	Mechanical life:100,000		Electrical life:30,000(UL,CE)	
IP level	Ip67			
Certification	CE,UL			

Conversion: 1bar=14.5psi 1MPa=10bar

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Note: Replaceable connector can be found in Appendix 1

Dimension in: mm

LF08E

Pressure switch for
Water purifier



LF08E Order Ref NO

LF08E-1 01 C-0.2-0.3MPa

A B C D Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back
②Less than 0.6MPa can be no pressure differential on customers' request.

This product is specially designed for water purifier, which can replace traditional high-low pressure switch. It is more sensitive action and used for wider range of applications.

Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Galvanized iron	C-SPST(NC)
2	2-Blade type	/	/	O-SPST(NO)
3	/	/	/	/
4	/	/	/	/
5	/	/	/	/
6	/	/	/	/
7	/	/	/	/
8	/	/	/	/

Specification

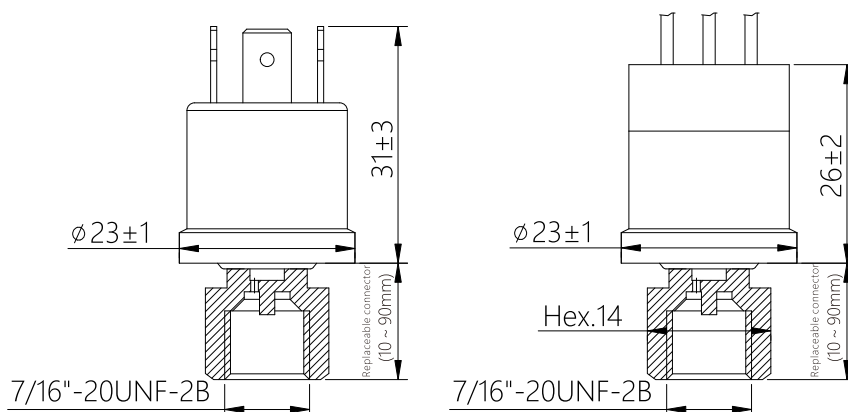
Model	LF08E			
Pressure setting range (gauge pressure)	0.02MPa to 1.0MPa; Low pressure below 0.6MPa; High pressure above 0.6MPa			
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value		Tolerance	Withstand maximum pressure
	0.02 ≤ < 0.6MPa		±0.03MPa	1.5MPa
	0.6 ≤ < 1.0MPa		±0.03MPa	2.0MPa
Burst pressure (gauge pressure)	3.2MPa×1min,no damage, leakage			
Operating temperature	Ambient temperature		Medium temperature	
	Low pressure:-40℃~65℃	High pressure:-40℃~80℃	Low pressure:-40℃~80℃	High pressure:-40℃~100℃
Electrical parameter	24~250VAC/0.02~6A;8~36VDC/0.02~3A			
	Note: The maximum current is 0.5A if it's no differential pressure version to ensure electrical life			
Medium	Air, water			
Service life	Mechanical life:100,000		Electrical life:30,000	
IP level	Ip54			

LF08F

Pressure switch



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Note: Replaceable connector can be found in Appendix 1

Dimension in : mm

LF08D series pressure switch is a switch with automatic reset design. With a wide pressure setting range, it can be applied to different requirements. It is used for air, water pressure control, electrical refrigeration equipment, indoor air conditioners or internal circuits of indoor cooling devices, domestic cooling systems, and internal circuits of long-distance outdoor condensing devices. Typical applications: Air conditioning/oil pump/fouraxis/five axis turntable equipment

LF08F Order Ref NO

LF08F-1 01C-0.2-0.3MPa

A B C D Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back

②No pressure differential is not available

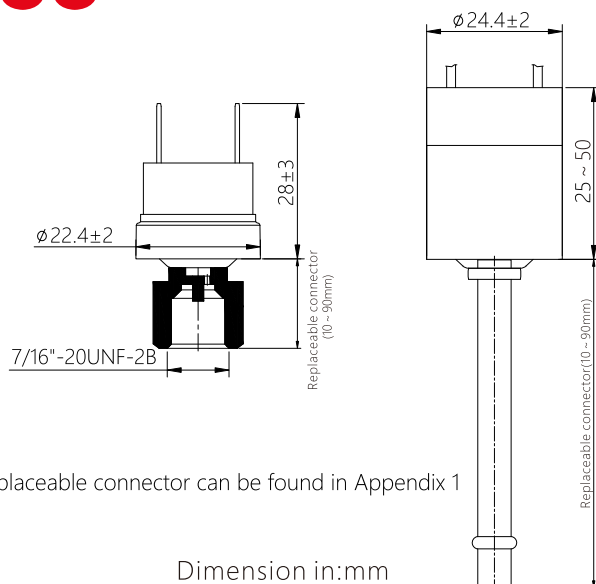
Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	D-SPDT
2	2-Blade type	2-M thread (below M10)	2-Brass	/
3	/	3-M thread (above M12)	/	/
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

Specification

Model	LF08F		
Pressure setting range (gauge pressure)	0.02MPa to 6.5MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa		
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value	Tolerance	Withstand maximum pressure
	0.02≤<0.6MPa	±0.03MPa	1.5MPa
	0.6≤<1.0MPa	±0.05MPa	2.0MPa
	1.0≤<2.0MPa	±0.07MPa	3.0MPa
	2.0≤<3.0MPa	±0.10MPa	4.0MPa
	3.0≤<4.0MPa	±0.15MPa	5.5MPa
	4.0≤<5.0MPa	±0.20MPa	6.5MPa
Burst pressure (gauge pressure)	34.5MPa×1min, no damage, leakage		
Operating temperature	Ambient temperature		Medium temperature
	Low pressure: -40°C~65°C	High pressure: -40°C~120°C	Low pressure: -40°C~80°C High pressure: -40°C~135°C
Electrical parameter	24~250VAC/0.02~6A; 8~36VDC/0.02~3A;		
Medium	Air, water, oil, lubricants, refrigerants and other similar hydrocarbons		
Service life	Mechanical life: 100,000		Electrical life: 30,000
IP level	Ip67		

Conversion: 1bar=14.5psi 1MPa=10bar

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Note: Replaceable connector can be found in Appendix 1

Dimension in:mm

LF08H

Small multi-purpose pressure switch



LF08H Order Ref NO

LF08H-1 0 1 C-0.2-0.3MPa

A B C D Pressure setting: On value :0.2MPa, Off value :0.3MPa

Note: ①The on-value is at front, and the off-value is at back
②No pressure differential is not available

This product is generally used for cooling fans, long life can be applied to the frequent start of fan fans. This product can also meet the demand for pressure control equipment with relatively long service life requirements.

Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	C-SPST(NC)
2	2-Blade type	2-M thread (below M10)	2-Brass	O-SPST(NO)
3	/	3-M thread (above M12)	/	D-SPDT
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

Specification

Model		LF08H	
Pressure setting range (gauge pressure)		0.02MPa to 6.5MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa	
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value	Tolerance	Withstand maximum pressure
	0.02 ≤ <0.6MPa	±0.03MPa	1.5MPa
	0.6 ≤ <1.0MPa	±0.05MPa	2.0MPa
	1.0 ≤ <2.0MPa	±0.07MPa	3.0MPa
	2.0 ≤ <3.0MPa	±0.10MPa	4.0MPa
	3.0 ≤ <4.0MPa	±0.15MPa	5.5MPa
	4.0 ≤ <5.0MPa	±0.20MPa	6.5MPa
	5.0 ≤ <6.5MPa	±0.25MPa	8.0MPa
Burst pressure (gauge pressure)		34.5MPa×1min, no damage, leakage	
Operating temperature		Ambient temperature	
		Low pressure: -40°C ~ 65°C	High pressure: -40°C ~ 120°C
Electrical parameter		Medium temperature	
		Low pressure: -40°C ~ 80°C	High pressure: -40°C ~ 135°C
Electrical parameter		24~250VAC/0.02~6A; 8~36VDC/0.02~3A; 600VAC/0.02~3A	
Medium		120VAC/6A; 250VAC/6A(CE)	
Medium		Air, water, oil, lubricants, refrigerants and other similar hydrocarbons	
Service life		Mechanical life: 100,000	
		Electrical life: 30,000(CE)	
Service life		Customizable for longer life	
IP level		Ip67	
Certification		CE	

Conversion: 1bar=14.5psi 1MPa=10bar

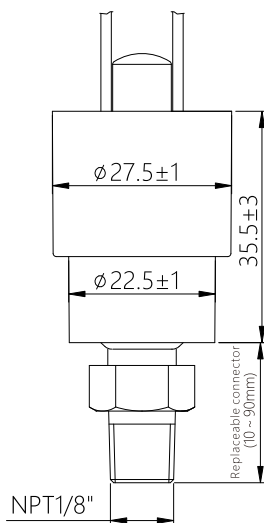
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LF08M

Manually reset
Pressure switch



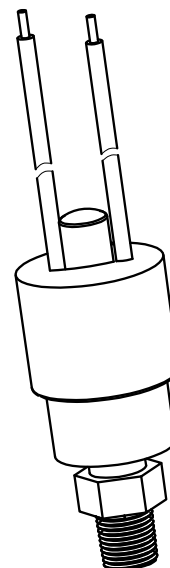
LF08M is a manually reset pressure switch, the maximum pressure set point can reach 942.5 PSI, the maximum rated current is 6A, and the switch can be normally open or normally closed. It is widely used in refrigeration units, various air conditioners, air compressors, oil pumps and other industrial equipment that need to adjust the pressure of the medium by themselves to protect the pressure system.



Note: Replaceable connector can be found in Appendix 1

Dimension in:mm

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LF08M Order Ref NO

LF08M-1 01C-0.2-0.3MPa

A BCD Pressure setting: On value :0.2MPa, Off value :0.3MPa

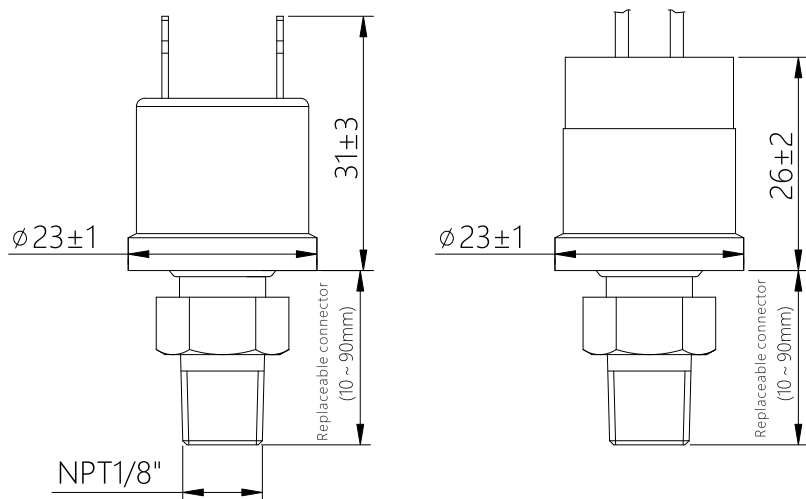
Note: ①The on-value is at front, and the off-value is at back

Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	C-SPST(NC)
2	/	2-M thread (below M10)	2-Brass	O-SPST(NO)
3	/	3-M thread (above M12)	/	D-SPDT
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

Specification

Model	LF08M			
Pressure setting range (gauge pressure)	0.02MPa to 6.5MPa; Low pressure below 1.0MPa; High pressure above 1.0MPa			
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value		Tolerance	Withstand maximum pressure
	0.2≤<0.6MPa		±0.03MPa	1.5MPa
	0.6≤<1.0MPa		±0.05MPa	2.0MPa
	1.0≤<2.0MPa		±0.07MPa	3.0MPa
	2.0≤<3.0MPa		±0.10MPa	4.0MPa
	3.0≤<4.0MPa		±0.15MPa	5.5MPa
	4.0≤<5.0MPa		±0.20MPa	6.5MPa
	5.0≤<6.5MPa		±0.25MPa	8.0MPa
Burst pressure (gauge pressure)	34.5MPa×1min,no damage, leakage			
Operating temperature	Ambient temperature		Medium temperature	
	Low pressure:-40℃~65℃	High pressure:-40℃~120℃	Low pressure:-40℃~80℃	High pressure:-40℃~135℃
Electrical parameter	24~250VAC/0.02~6A;8~36VDC/0.02~3A			
Medium	Air, water, oil, lubricants, refrigerants and other similar hydrocarbons			
Service life	Mechanical life:100,000		Electrical life:30,000(UL,CE)	
IP level	Ip67			

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Note: Replaceable connector can be found in Appendix 1

Dimension in : mm

LF08V Order Ref NO

LF08V-1 0 1 C--0.05--0.07MPa

A B C D Pressure setting: On value : -0.05MPa, Off value : -0.07MPa

Note: ①The on-value is at front, and the off-value is at back
②No pressure differential is not available

LF08V

Small vacuum
Pressure switch



LF08V series pressure switch is designed automatic reset switch, used in vacuum environment, vacuum system applicable to electric car.

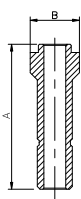
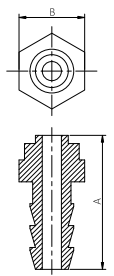
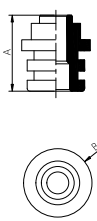
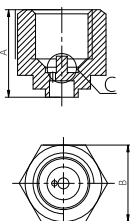
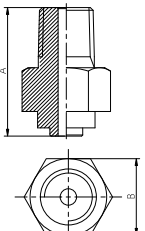
Code	A Electrical connection type	B Pressure connection type	C Interface material	D Electrical circuit
1	1-Wire type	0-Other (rod/barb)	1-Stainless steel	C-SPST(NC)
2	2-Blade type	2-M thread (below M10)	2-Brass	O-SPST(NO)
3	/	3-M thread (above M12)	/	/
4	/	4-NPT thread	/	/
5	/	5-R thread	/	/
6	/	6-G thread	/	/
7	/	7-UNF thread	/	/
8	/	8-Copper tube	8-Copper	/

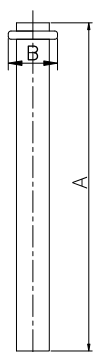
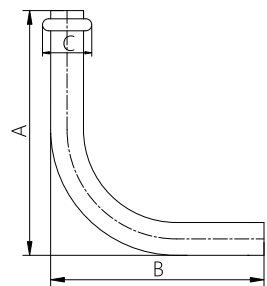
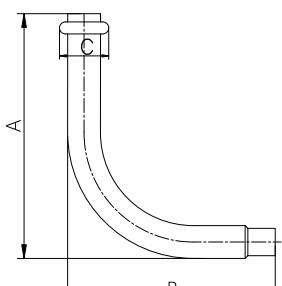
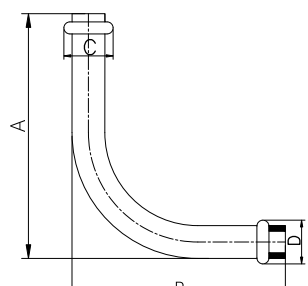
Specification

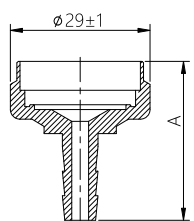
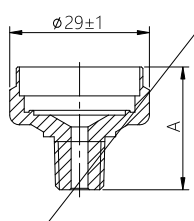
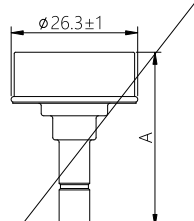
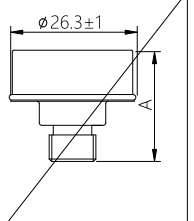
MODEL		LF08V	
Pressure setting range (gauge pressure)	-0.06MPa to 0MPa		
Operating pressure /Tolerance/ Withstand pressure (gauge pressure)	Operating pressure value	Tolerance	Withstand maximum pressure
	-0.06≤ <0MPa	±0.02MPa	1.0MPa
	Pressure differential≥0.025MPa		
Burst pressure (gauge pressure)	34.5MPa×1min,no damage, leakage		
Operating temperature	Ambient temperature	Medium temperature	
	-20~65℃	-20~65℃	
Electrical parameter	24~50VAC/0.02~3A;8~36VDC/0.02~3A		
Medium	Air, water, oil, lubricants, refrigerants and other similar hydrocarbons		
Service life	Mechanical life:100,000		Electrical life:30,000
IP level	Ip67		

Conversion: 1bar=14.5psi 1MPa=10bar

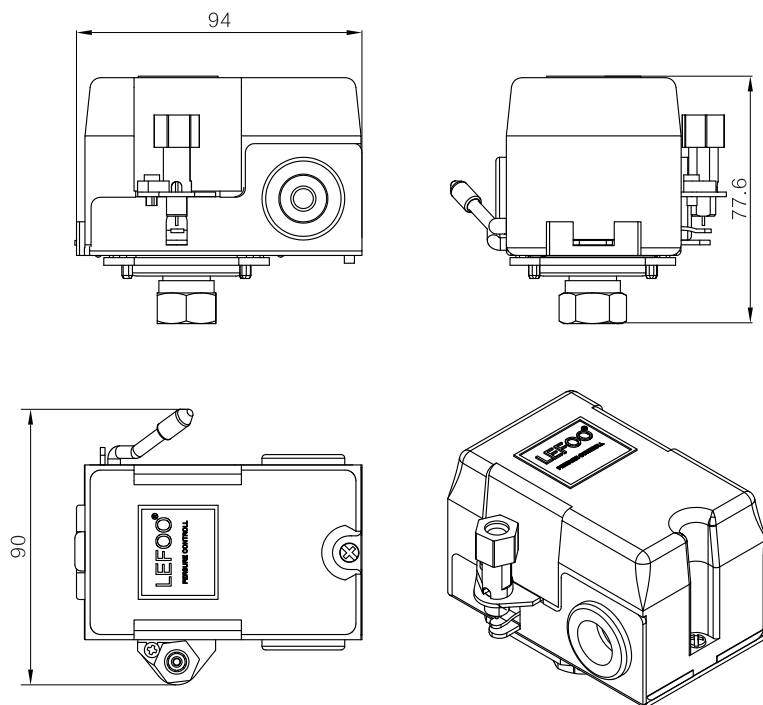
Appendix 1: Process connection size table

08 connector				
Quick fitting			Female	Male
 A:20-40mm B:7-20mm Material is brass, stainless steel	 A:10-40mm B:12-21mm B available without hexagon Material is brass, stainless steel	 A:10-40mm B:10-25mm Material is brass, stainless steel	 A:10-30mm B:12-24mm C pin can be removed Material is brass, stainless steel Thread specifications: NPT thread, R thread, G thread, UNF thread, M thread	 A:10-30mm B:12-24mm Material is brass, stainless steel Thread specifications: NPT thread, R thread, G thread, UNF thread, M thread

08 connector				
Copper tube				
 A:20-100mm B:Ø8-10mm	 A:30-80mm B:20-60mm C: Ø8-10mm D: Ø6-9mm			

08D connector		08E connector	
Quick fitting	Male	Quick fitting	Male
 A:20-40mm	 A:20-40mm	 A:20-40mm	 A:15-40mm

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Dimension in:mm

LF10

Air compressor
Pressure switch



The LF10 pressure switches are used to regulate the tank pressure between two preset values on small (up to 200psi) electrically driven air compressors. They are available with an unloader valve, which prevents compressors from starting under load, and an auto-off disconnect lever for manual cut off the compressor. A four port manifold style is available which provides a means for easy mounting of valves and gauges.

LF10 Order Ref NO

LF10 (A) -4 H 1 1 1 2 3 -85psi-115psi

A **B** **C** **D** **E** **F** Pressure setting:Cut in 85psi Cut off 115psi

Number	Connection Type	Connection Size	Unloader Valve Type	Unloader Valve Connection	Handle Type
0	/	/	Without	Without	Without
1	single port B female	C 1/4NPT	D vertical	Φ6.0mm	long and bend
2	/	male	horizontal	E Φ6.4mm	long and straight
3	/	R1/4	/	Φ6.5mm	F short and bend
4	A four ports	R3/8	/	/	short and straight
5	/	G1/4	/	/	/
6	/	G3/8	/	/	/

Specification

Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF10	Air	25-100psi	55-80psi	20-35psi	20A/120VAC 12A/240VAC	NC	1/4,3/8Male or Female NPT (1Port) 1/4 Female NPT (4Ports)
	Air	35-150psi	85-115psi	30-40psi			
	Air	50-175psi	110-150psi	35-55psi			
	Air	70-190psi	130-175psi	40-55psi			
LF10A	Air	25-100psi	55-80psi	20-35psi	26A/120VAC 26A/240VAC	NC	1/4,3/8Male or Female NPT (1Port) 1/4 Female NPT (4Ports)
	Air	35-150psi	85-115psi	30-40psi			
	Air	50-175psi	110-150psi	35-55psi			
	Air	70-190psi	130-175psi	40-55psi			

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi Other connections are available on request.

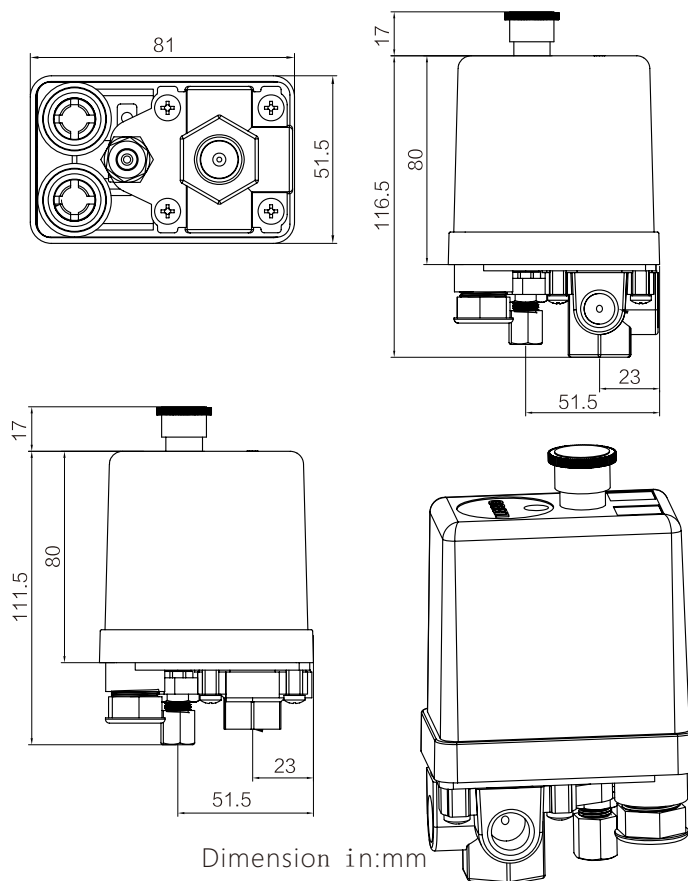
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LF10-L

Air compressor
Pressure switch



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The LF10-L pressure switch is a pressure-operated electric switch for use in regulating the tank pressure between two preset values on electrically driven air compressors. It is available with an unloader valve, which prevents compressors from starting under load, and an On-Off button for manual cut off the compressor. A four port manifold style is available.

LF10-L Order Ref NO

LF10-L -4 H 1 1 1 2 -85psi-115psi

A B C D E Pressure setting:Cut in 85psi Cut off 115psi

Number	Connection Type	Connection Size	Unloader Valve Type	Unloader Valve Connection
0	/	/	/	Without
1	single port	B female	C 1/4NPT	D Copper
2	/	/	3/8NPT	E Φ6.0mm
3	/	/	R1/4	Φ6.5mm
4	A four ports	/	R3/8	/
5	/	/	G1/4	/
6	/	/	G3/8	/

Specification

Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF10-L1H	Air	45-175psi	85-115psi	30-45psi	120VAC, 20A	NC	G1/4,G3/8 or 1/4,3/8NPT Female
LF10-L4H	Air	45-175psi	85-115psi	30-45psi	120VAC, 20A	NC	G1/4,G3/8 or 1/4, 3/8NPTFemale (Four ports)

Other pressure settings and differential are available on request.

Other connections are available on request.

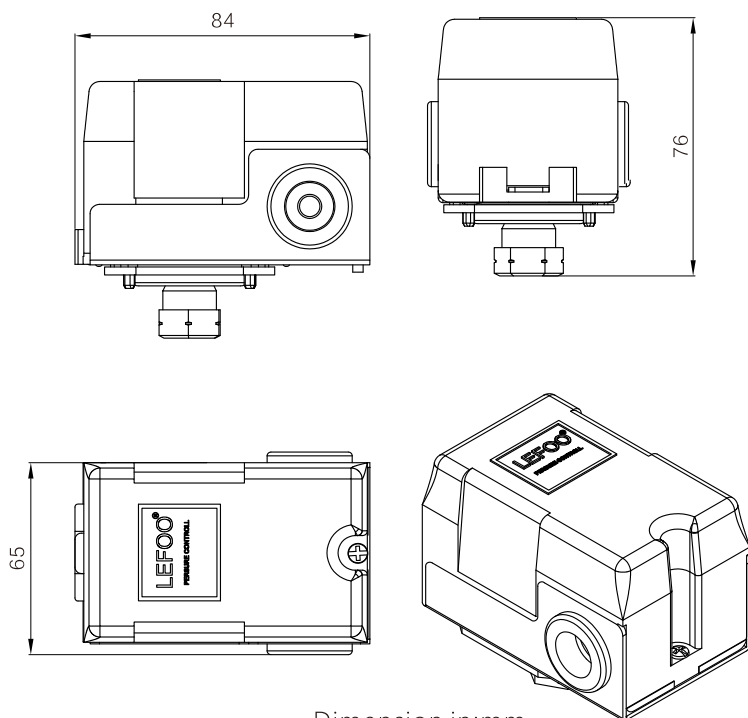
Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

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LF10-W

Pump pressure switch



Dimension in:mm



12

LF10-WS and LF10-WR Order Ref NO

LF10 (A) -W (S or R) -1 1 1 -30-50psi

Contact Type: **NC** **NO** **A B C** Pressure setting: Cut in 35psi Cut off 50psi

LF10-W series pressure switches provide time tested, reliable control for automatic water systems. The switch is universally acceptable for use as original equipment on water well pumps or pumping systems.

Number	Connection Type		Connection Size
1	A single port	B female	C 1/4NPT
2	/	male	3/8NPT
3	/	/	R1/4
4	/	/	R3/8
5	/	/	G1/4
6	/	/	G3/8
7	/	/	NPT1/4 Long Male
8	/	/	G1/4 Bolt Connectin

Specification

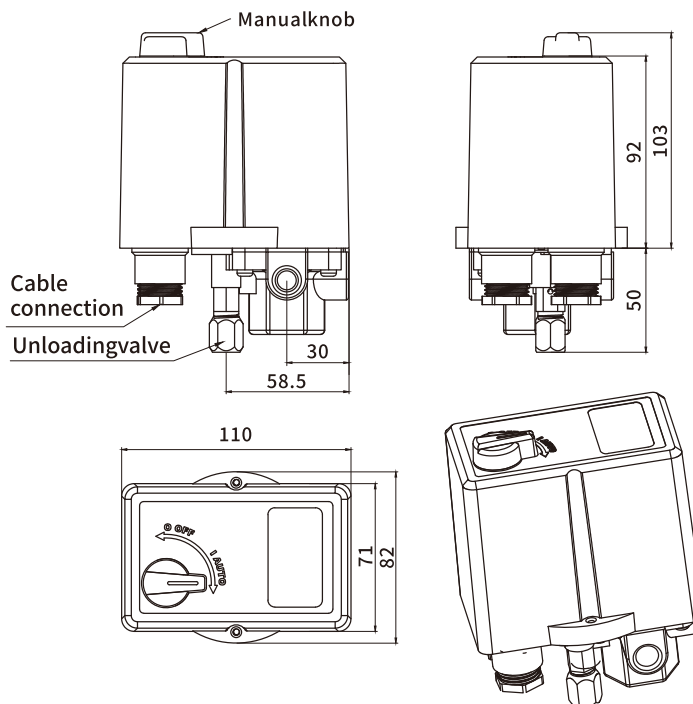
Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF10-WS (LF10A-WS)	Water	15-82psi	20-35psi	15-30psi	120VAC, 20A (120VAC, 26A)	NC	1/4NPT Male or Female
	Water	30-100psi	30-50psi	20-35psi	240VAC, 12A (240VAC, 26A)		
	Water	35-150psi	85-115psi	30-40psi	(240VAC, 26A)		
LF10-WR (LF10A-WR)	Water	80-15psi	50-30psi	17-30psi	120VAC, 20A (120VAC, 26A)	NO	1/4NPT Male or Female
	Water	100-30psi	100-75psi	25-30psi	240VAC, 12A (240VAC, 26A)		
	Water	150-35psi	125-95psi	30-45psi	(240VAC, 26A)		

Conversion: 1kgf/cm²=14.2psi 1bar=14.5psi Other connections are available on request.

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LF12

Air Pressure Switches



Dimension in:mm

LF 12 is three phase pressure switch ,used for air compressor and water pump to regulate pressure between two preset values. It is available with an unloader value,which prevents compressor from starting under load and an On-Off knob for manual cut off the compressor or pump. A four port manifold style is available ,which makes easy mounting of other parts for air compressor ,like valve and gauge. LF12 is available with thermal relay for overload protection.The relay will cut off the motor power timely to prevent the motor from burning when motor is overloaded.

LF12 Pressure Range

Model	Operating Pressure Range	Differential Range	Factory Setting
LF12	1-6bar	0.7-2bar	2/3bar
	3-11bar	1.5-3.5bar	6/8bar
	6-16bar	2-7bar	9/12bar
	5-25bar	3-8bar	16/20bar
	12-35bar	3-8bar	25/30bar

LF12Order Ref NO

LF12-1-1-1-1-1

A B C D E

NO.	A Connection Type	B Female Connection Size	C Unloader Valve Type	D Unloader dimensions	E Current ranges
1	Single port	G1/4+3*G1/4	No unloader valve	without	2.5-4A
2	Four port	R1/4+3*R1/4	Vertical M12 (Brass)	φ6.0-φ6.1	4-6.3A
3		1/4NPT+3*1/4NPT	Vertical φ6 tube quick connection (brass)	φ6.4-φ6.5	6.3-10A
4		G3/8+3*G1/4	vertical oil resistant M12 (brass)		10-16A
5		R3/8+3*R1/4	Vertical Oil Resistant φ6 Tube Quick connection (Brass)		16-20A
6		3/8NPT+3*1/4NPT	vertical oil resistant M12 (zinc alloy)		
7		G1/2+3*G1/4	Level Oil resistant M12 (zinc alloy)		
8		R1/2+3*R1/4			
9		1/2NPT+3*1/4NPT			

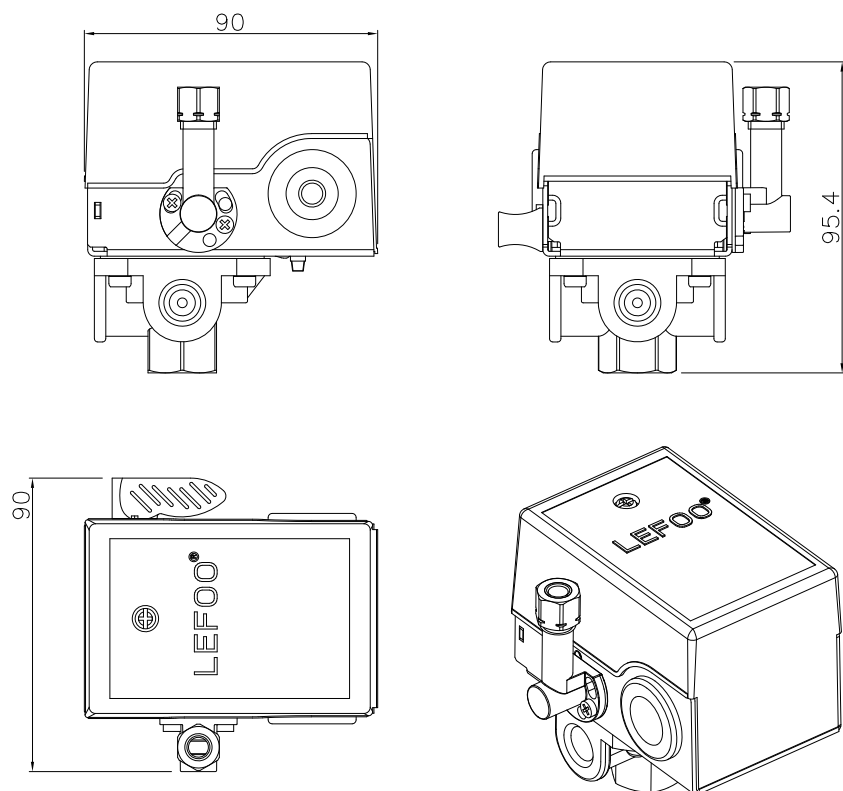
PS: Contact us if you have special request

Specification

Medium	water, air	Operating temperature	-40~82°C (fluid)
Contact	Multi-pole single-throw (normally closed)	Protection class	IP54
Electrical rating	Single-phase 120VAC/10A ;	Cable Specifications	10AWG-14AWG
	230VAC/10A	Contact material	Static contact: silver alloy;moving contact: silver alloy
	Three-phase 120VAC/10A ;	Appendix	Chinese/English manual
	230VAC/10A;	air tightness	no leakage when the switch is held at 1.2 times the maximum working pressure for one minute
	400VAC/7.5A; 400VAC/11A;	usage frequency	It takes 30 minutes to cool down for the thermal relay to start Motor cycle frequency more than 5 minutes
	500VAC/6A; 500VAC/9A; 690VAC/4.5A; 690VAC/6.5A		

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LF15 Pressure Switch



Dimension in: mm



LF15 series pressure switches, this product is used for adjusting the pressure which in the compressor tank to operate between two preset pressure values. The pressure switch with an unloading valve prevents the air compressor from overloading and the handle is supposed to manually power off the compressor. The four-way base connection makes the installation of additional parts more convenient.

Specification

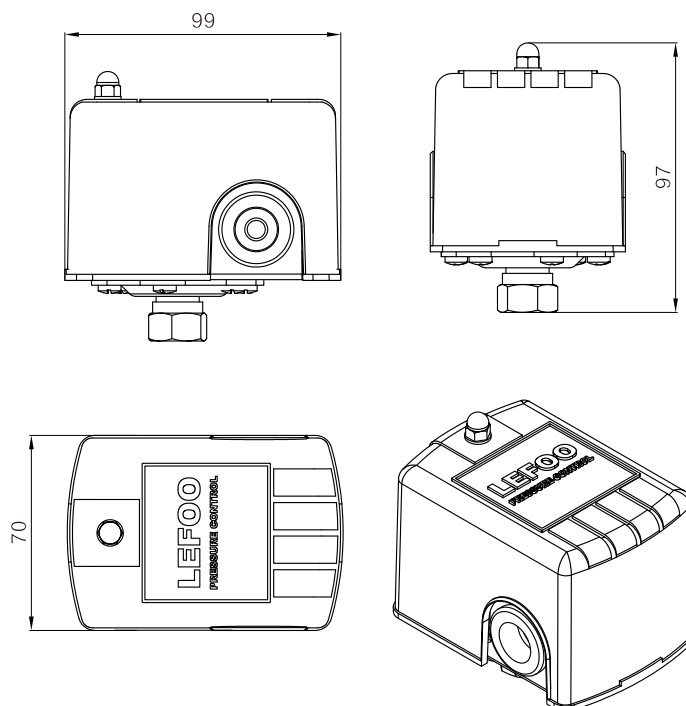
Model	LF15
Media	Air, non-flammable or non-hazardous non corrosive gases
Pressure adjusting range	0.3-1.2Mpa
Differential pressure range	0.15-0.45Mpa
Factory settings	according to user's requirements
Pressure setting point tolerance	≤5% (Operating pressure value)
Max. working pressure	1.2Mpa
Rated voltage, current, frequency	120VAC/240VAC, 26A/20A, 50HZ/60HZ
Contact mode	NC
Connector Type	Female-1-Port, Male-1-Port, F/M-2-Port, Female-4-Port
Interface thread	NPT1/4、R1/4、G1/4 (could be customized)
Unloading valve	Without/with
Direction of unloading valve	As required
Liner diameter of unloading valve	Φ6.0mm、Φ6.4mm、Φ6.5mm(could be customized)
Manual Mode	Without/with
Working Temperature	-20°C~80°C
Voltage resistance	No breakdown in one minute under 2500V
Way to installation	vertically/horizontally
Protection grade	Ip20

LF16

Pump pressure switch



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Dimension in:mm

LF16 pressure switches provide time tested, reliable control for automatic water systems. The switch is universally acceptable for use as original equipment on water well pumps or pumping systems.

LF16 Order Ref NO

LF16(-1) -1 1 1 -30-50psi

A B C Pressure setting:Cut in 30psi

Cut off 50psi

Number	Connection Type		Connection Size
1	A single port	B female	C 1/4NPT
2	/	male	3/8NPT
3	/	/	R1/4
4	/	/	R3/8
5	/	/	G1/4
6	/	/	G3/8

Specification

Model	Min On (Cut-In) psi	Min Off (Cut-Out) psi	Differential psi	Factory Setting psi	Electrical Rating			Contact Arrange- ment	Connection		
					120VAC	240VAC	240VAC				
LF16	20	80	15-30	20-40	2HP	3HP	5HP	NC	1/4 Male or Female NPT		
			15-30	30-50							
			15-35	40-60							
	40	100	20-35	70-100							
LF16-1	20	80	15-30	20-40	1.5HP	2HP	3HP			NC	1/4 Male or Female NPT
			15-30	30-50							
			15-35	40-60							
	40	100	20-35	70-100	2HP	3HP	5HP				

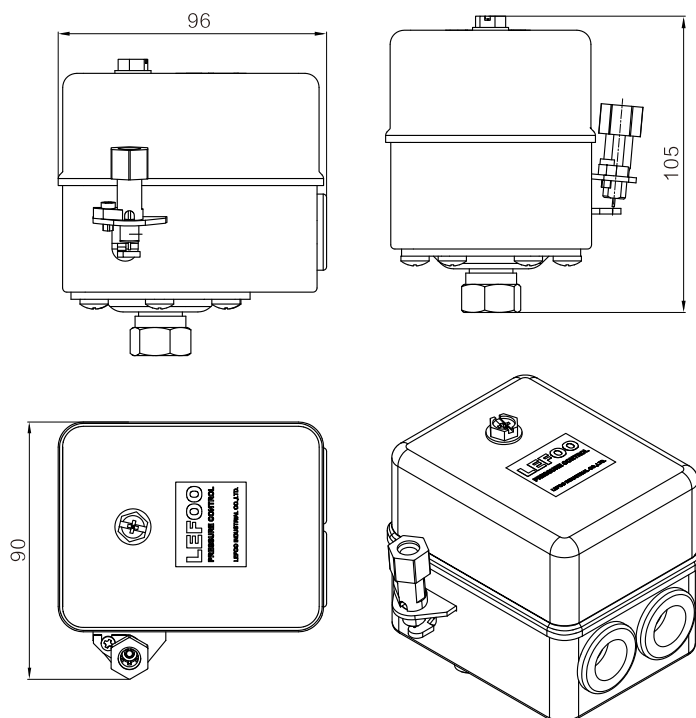
Conversion:1kgf/cm²=14.2psi 1bar=14.5psi Other connections are available on request.

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LF17

Air compressor
Pressure switch



Dimension in:mm



The rugged LF17 pressure switch is designed for the demanding requirements of larger, heavy duty commercial air compressors (up to 250 psi). The sturdy painted steel case and cover resists the harsh conditions encountered in industrial applications. This style is also available with an unloader valve to prevent the compressor from starting under load .

LF17 Order Ref NO

LF17(A) -1 H 1 1 1 2 -145-175psi

A B C D E Pressure setting:Cut in 145psi Cut off 175psi

Number	Connection Type		Connection Size	Unloader Valve Type	Unloader Valve Connection
1	A single port	B female	C 1/4NPT	D vertical	Φ6.0mm
2	/	male	3/8NPT	horizontal	E Φ6.4mm
3	/	/	R1/4	/	Φ6.5mm
4	/	/	R3/8	/	/
5	/	/	G1/4	/	/
6	/	/	G3/8	/	/

Specification

Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF17	Air	40-250psi	140-175psi	35-60psi	120VAC、24A 240VAC、20A	NC	1/4,3/8NPT Male or Female
	Air	15-60psi	30-45psi	15-20psi			
LF17A	Air	240-500psi	325-400psi	55-70psi	120VAC、30A 240VAC、25A		

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

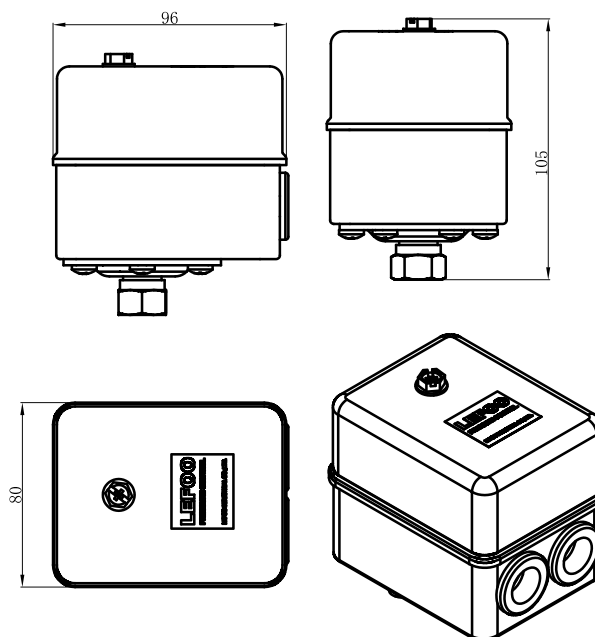
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LF17-W

Pump pressure switch



LEFOO



Dimension in:mm

The rugged LF17 pressure switch is designed for the demanding requirements of larger, heavy duty commercial water pump system.

LF17-W Order Ref NO

LF17-W -111-80-100psi

A B C

Pressure setting:Cut in 80psi

Cut off 100psi

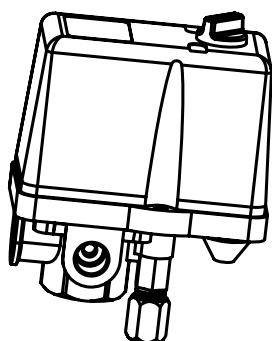
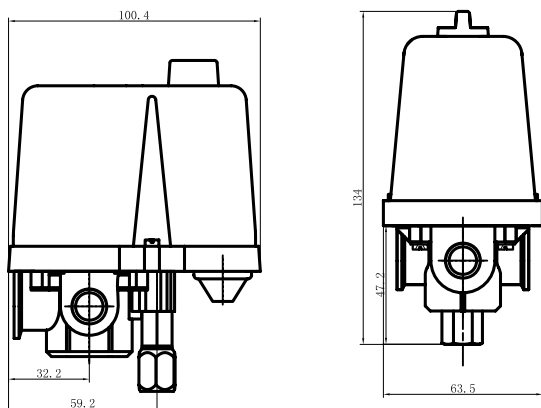
Number	Connection Type		Connection Size
1	A single port	B female	C 1/4NPT
2	/	male	3/8NPT
3	/	/	R1/4
4	/	/	R3/8
5	/	/	G1/4
6	/	/	G3/8

Specification

Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF17-W	Water	40-250psi	80-100psi	20-60psi	120VAC, 24A 240VAC, 20A	NC	G,NPT1/4, 3/8 Male or Female
	Water	14-100psi	40-70psi	14-50psi			
LF17-W5	Water	15-60psi	30-45psi	7-20psi			

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

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Dimension in:mm

LF18

Air compressor and pump
Pressure switch



The LF18 pressure switch is used to regulate the tank pressure between two preset values on 3 phase electrically driven air compressors. It is available with an unloader valve, which prevents compressors from starting under load, and it is available with an On-Off knob for manual cut off the compressor.

LF18 Order Ref NO

LF18 -4 H 1 1 1 1 2 -85psi-115psi

A B C D E F Pressure setting:Cut in 8bar Cut off 115psi

Number	Connection Type	Connection Size	Unloader Valve Type	Unloader Valve Connection	Handle Type
0	/	/	without	without	without
1	single port B female	C G1/4	D vertical(brass)	Φ6.0mm	F ON/OFF Knob
2	/	G1/2	vertical(zinc alloy)	E Φ6.4mm	/
3	two ports	1/4NPT	horizontal(zinc alloy)	Φ6.5mm	/
4	A four ports	1/2NPT	horizontal(plastic)	/	/
5	/	R1/4	/	/	/
6	/	R1/2	/	/	/

Specification

Model	Media	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement	Connection
LF18	Air	1.0-5.0bar	2.0-4.0bar	1.0-3.0bar	400VAC-3 16A/25A	NC	1/4 or 1/2NPT, G1/4 or 1/2 Female
		2.0-8.0bar	3.8-5.0bar	1.0-3.0bar			
		3.0-11.0bar	5.6-7.0bar	1.4-4.0bar			
		4.0-16.0bar	8.0-10.0bar	1.8-4.5bar			

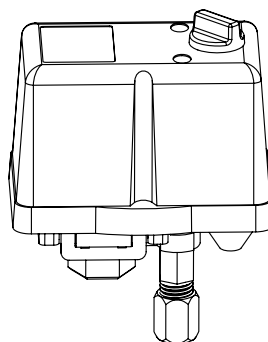
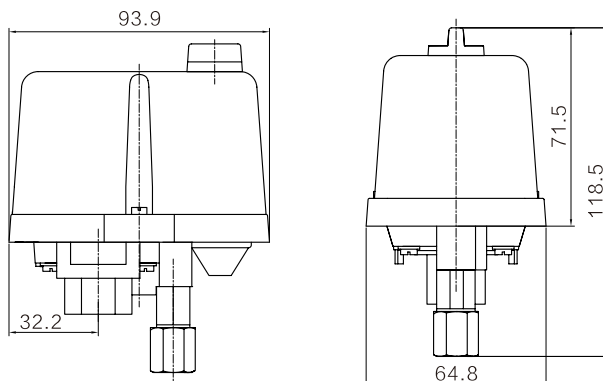
Conversion:1kgf/cm²=14.2psi 1bar=14.5psi Other connections are available on request.

LF19

Air compressor and pump
Pressure switch



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Dimension in:mm

LF19 pressure switches provide time tested, reliable control for automatic water systems. The switch is universally acceptable for use as original equipment on water well pumps or pumping systems. It is available with an On-Off knob for manual cut off the pump.

LF19 Order Ref NO

LF19 -4 1 1 1 2 1 -7.5-10.5bar

A B C D E F

Pressure setting:Cut in 7.5bar

Cut off 10.5bar

Number	Connection Type	Connection Size	Unloader Valve Type	Unloader Valve Connection	Handle Type
0	/ /	/	without	without	without
1	single port B female	C G1/4	D vertical(brass)	Φ6.0mm	F ON/OFF Knob
2	/ /	G1/2	vertical(zinc alloy)	E Φ6.4mm	/
3	three ports	1/4NPT	horizontal(zinc alloy)	Φ6.5mm	/
4	A four ports	1/2NPT	horizontal(plastic)	/	/
5	/ /	R1/4	/	/	/
6	/ /	R1/2	/	/	/

Specification

Model	Media	Unloader Valve	Operating Pressure Range	Factory Setting	Differential	Electrical Rating	Contact Arrangement
LF19	Air	With	1-6bar	2-4bar	1-3bar	250VAC 16A/25A	NC
			2-11bar	6-8bar	1.4-3.5bar		
			5-14bar	8-10bar	1.8-4.0bar		

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

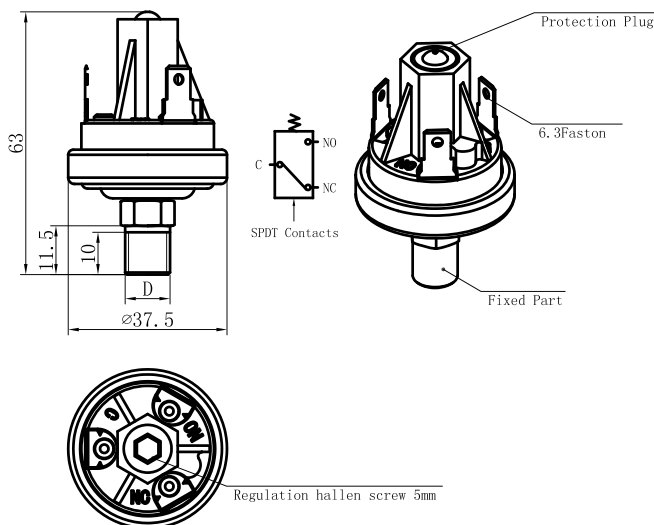
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Dimension in : mm

LF20

Extended duty
Pressure switch



The LF20 pressure switch is specifically designed to stand up to extended duty applications. This switch is factory set but capable of field adjustment. It features different diaphragms for compatibility with a wide variety of fluids, and various terminations including a Metri-Pack connector that forms a tight seal when connected. It can be widely used for pool and spa, anti-skid braking systems, water pump systems, and dental air compressors, heavy construction, off road equipments and other pressure control systems.

LF20 Order Ref NO

LF20-4 1 1 1 1 1 -10Psi

A B C D E F Pressure setting: 10psi

Number	Pressure Set Point Range	Circuitry	Base Material	Connection	Terminals	Cover
0	/	/	/	/	/	none
1	0.5-1psi±0.3psi	B SPST-NC	C brass	D 1/8NPT	E 1/4 blade	F cover A
2	1.1-3psi±0.5psi	SPST-NO	plated steel	1/4NPT	#8-32 screws	cover B
3	3.1-7psi±1psi	SPDT-NO-C-NC	stainless steel	R1/8	wire leads	/
4	A 8-13psi±2psi	SPST-NO(adjustable)	/	R1/4	/	/
5	14-24psi±3psi	SPDT-NO-C-NC(adjustable)	/	G1/8	/	/
6	25-50psi±5psi	/	/	G1/4	/	/
7	51-90psi±7psi	/	/	/	/	/
8	91-150psi±10psi	/	/	/	/	/

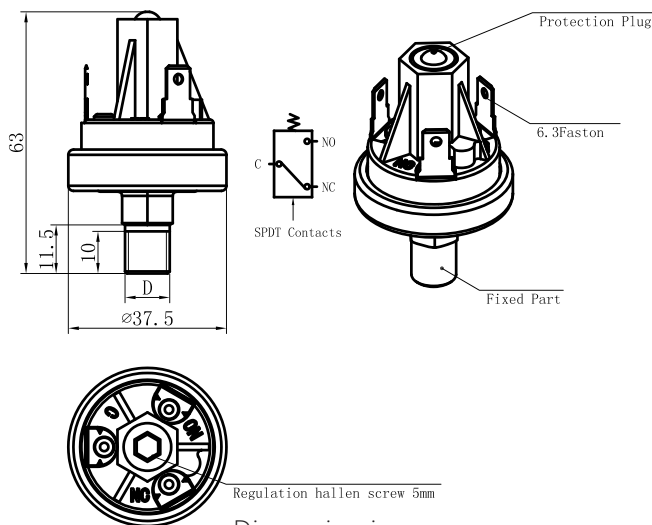
Specification

MODEL	LF20
Media	Air,water,motor oils,transmission oils,jet fuels and other similar Hydrocarbon Media
Pressure Set Point	Factory set from 0.5 to 150psi
Max Operating Pressure	150psi for 0.5 - 24psi-set point range , 250psi for 25-150psi set point range
Proof Pressure	500psi
Burst Pressure	750psi for 0.5-24psi set point range, 1250psi for 25-150psi set point range
Operating Temperature Range	-40°C to +120°C
Switch Type	Direct action,blade contact
Electric Rating	Resistive : 15AMP-6VDC, 8AMP-12VDC, 4AMP-24VDC Inductive : 1AMP-120VAC, 0.5AMP-240VAC
Contact Arrangement	SPST-N.O,N.C 1circuit adjustable dual circuit,or 2circuits adjustable dual circuit.Also available are N.O/N.O.dual circuit and N.C/N.C.dual circuit
Terminal	#8-32 screws,1/4" blade
Connection	1/8-27NPT Male
Material	Contact:silver alloy,gold plated;Base:brass;Cover:glass reinforced polyester;Diaphragm:polyimide film
Options	Plated Steel,plastic or stainless steel base;various base connector threads;wire leads(potted & sealed);Teflon or EPDM diaphragm

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

LF20-H

Ultra duty
Pressure switch



The LF20-H pressure switches are robust, compact and designed to operate in harsh environments at various pressures. The switch is factory calibrated but in the case that adjustment is needed in the field the switch offers an adjustment screw to facilitate any fine tuning required. The standard diaphragm employed is polyimide making it compatible with many gases and liquids. Several other diaphragm materials are available that make the switch compatible with many mediums. Various electrical terminations are available including tabs and a metric-pack connector that forms a tight seal when connected.

LF20-H Order Ref NO

LF20-H -4 1 2 1 1 1 -175psi

A B C D E F Pressure setting: 175psi

Number	Pressure Set Point Range	Circuitry	Base Material	Connection	Terminals	Cover
0	/	/	/	/	/	none
1	10-35psi±3psi	B SPST-NC	/	D 1/8NPT	E 1/4 blade	F cover A
2	35-75psi±7psi	SPST-NO	C plated steel	1/4NPT	#8-32 screws	cover B
3	75-150psi±10psi	SPDT-NO-C-NC	stainless steel	R1/8	wire leads	/
4	A 150-250psi±20psi	SPST-NO(adjustable)	/	R1/4	/	/
5	250-400psi±50psi	SPDT-NO-C-NC(NO.adjustable)	/	G1/8	/	/
6	/	/	/	G1/4	/	/

The polyimide diaphragm is not suit for water, if customer is to use the pressure switch in water, please contact the factory.

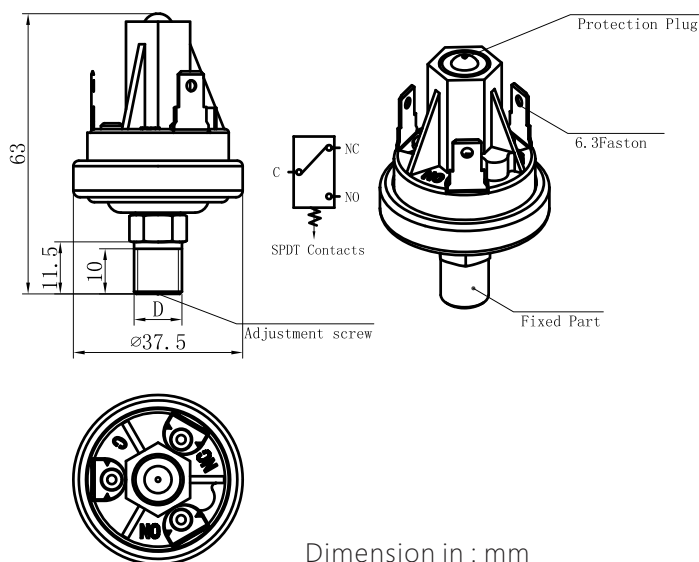
Specification

MODEL	LF20H
Media	Air,water,motor oils,transmission oils,jet fuels and other similar Hydrocarbon Media
Pressure Set Point	Factory set from 10 to 400psi
Max Operating Pressure	500 psi
Proof Pressure	2000 psi
Burst Pressure	4000 psi
Operating Temperature Range	-40°C to +120°C
Switch Type	Direct action,blade contact
Electric Rating	Resistive: 15AMP-6VDC, 8AMP-12VDC, 4AMP-24VDC Inductive: 1AMP-120VAC, 0.5AMP-240VAC
Contact Arrangement	SPST-NO,NC,SPDT
Terminal	#8-32 screws,1/4" blade,Metri-Pack
Connection	1/8"NPT Male,1/4"NPT Male,G1/8"Male,G1/4"Male
Material	Contact:Silver alloy,gold plated ;Base:Plated Steel ;Cover:Glaee reinforced polyester Diaphragm:Polyimide film(other materials is optional according to media)
Options	Base connector sizes,wire leads,NO/NO.dual circuit and NC/NC.dual circuit

Conversion:1kgf/cm²=14.2psi 1bar=14.5psi

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Dimension in : mm

LF20-V Order Ref NO

LF20-V -4 1 1 1 1 1 -20"Hg

A B C D E F Pressure setting: 20"Hg

LF20-V

Vacuum
Pressure switch



LF20-V vacuum switch is specifically designed to stand up to extended duty applications. This switch is factory set. It features a fluorosilicone rubber diaphragm for compatibility with a wide variety of fluids, and various terminations including a Metri-Pack connector that forms a tight seal when connected. Among the outstanding design benefits are its durable construction, compact size, and enhanced set point integrity.

Number	Pressure Set Point Range	Circuitry	Base Material	Connection	Terminals	Cover
0	/	/	/	/	/	none
1	1.1-3"Hg(15-41"H2O)±0.5"Hg	B SPST-NC	C barss	D 1/8NPT	E 1/4 blade	F cover A
2	4-8"Hg±1"Hg	SPST-NO	plated steel	1/4NPT	#8-32screws	cover B
3	9-17"Hg±2"Hg	SPDT-NO-C-NC	stainless steel	R1/8	wire leads	/
4	A 18-22"Hg±3"Hg	SPST-NO(adjustable)	/	R1/4	/	/
5	/	SPDT-NO-C-NC(adjustable)	/	G1/8	/	/
6	/	/	/	G1/4	/	/

Specification

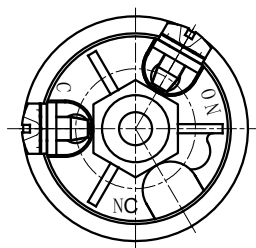
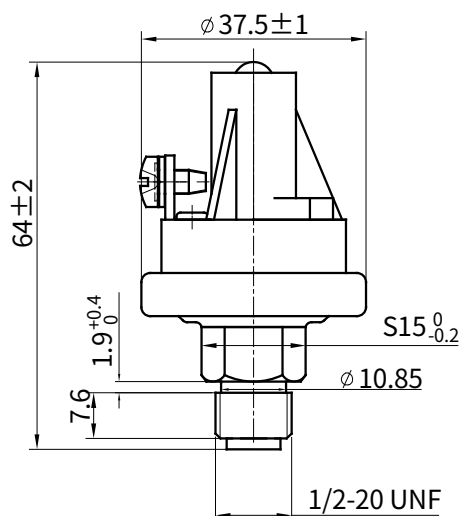
MODEL	LF20-V
Media	Air
Pressure Set Point	Factory set from 1.1 to 22 in/Hg vacuum
Max Operating Pressure	30 in/Hg vacuum
Burst Pressure	150 psi
Operating Temperature Range	-40°C to +120°C
Switch Type	Direct action, blade contact
Electric Rating	Resistive : 15AMP-6VDC, 8AMP-12VDC, 4AMP-24VDC Inductive : 1AMP-120VAC, 0.5AMP-240VAC
Contact Arrangement	SPST-NO, NC
Terminal	#8-32 screws, 1/4" blade, Metri-Pack
Connection	1/8"NPT Male, 1/4"NPT Male, G1/8"Male, G1/4"Male
Material	Contact: Silver alloy, gold plated ; Base: Plated Steel ; Cover: Glass reinforced polyester ; Diaphragm: Fluorosilicone elastomer
Options	Various base connector sizes, wire leads (potted & sealed)

Conversion: 1kgf/cm²=14.2psi 1bar=14.5psi 1 in/Hg=0.49psi

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LF20I

Pressure switch



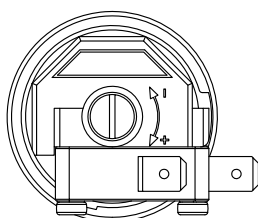
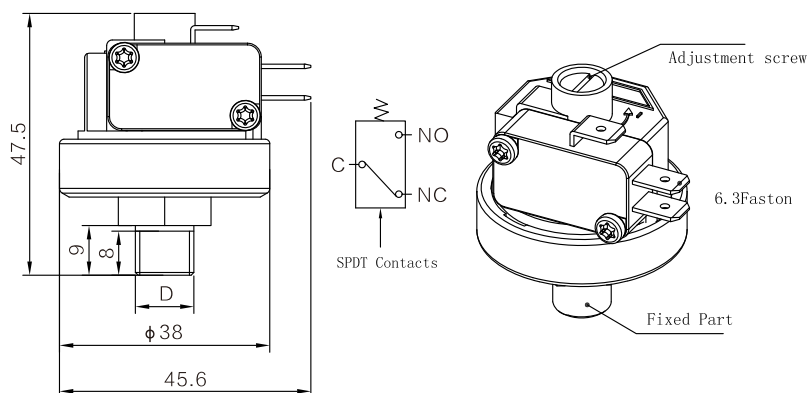
Dimension in:mm

The LF20 pressure switch is specifically designed to stand up to extended duty applications. This switch is factory set but capable of field adjustment. It features different diaphragms for compatibility with a wide variety of fluids, and various terminations including a Metri-Pack connector that forms a tight seal when connected. It can be widely used for pool and spa, anti-skid braking systems, water pump systems, and dental air compressors, heavy construction, off road equipments and other pressure control systems.

Specification

Model	LF20I
Media	Oils
Pressure Set Point	70psi
Thread Specification	1/2-20UNF Plated Steel
Temperature Range	-40°C~120°C
Contact Arrangement	NO-C
Terminal	M4 Thread Terminal
Proof Pressure	2000psi
Burst Pressure	4000psi

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Dimension in:mm

LF25

Steam pressure switch



LF25 pressure switch is designed for control pressure with higher current capacity. It is widely used in steam cleaner, steam sadirom and other pressure control system. It provides SPST or SPDT contact form and switch deadband (also referred to as mechanical differential or hysteresis). LF25 switch utilize high-quality miniature snap-action switches. The switch is diaphragm operated. During the development of a specification, actuation point can be adjusted by the designer. In production, factory setting is required.

LF25 Order Ref NO

LF25 -4 1 1 1 -3.5bar

A B C D Pressure setting: Factory set at 3.5bar

Number	Pressure Range	Connection Type (Male)	Electrical Rating	Max operating temperature
1	0.2-0.6bar	B 1/8NPT	C 16A, 125-250VAC	D 85℃
2	0.5-1.0bar	G1/8	22A, 125-250VAC	125℃
3	1.0-2.5bar	R1/8	/	/
4	A 2.0-4.0bar	1/4NPT	/	/
5	3.0-7.0bar	G1/4	/	/
6	5.0-9.0bar	R1/4	/	/

Specification

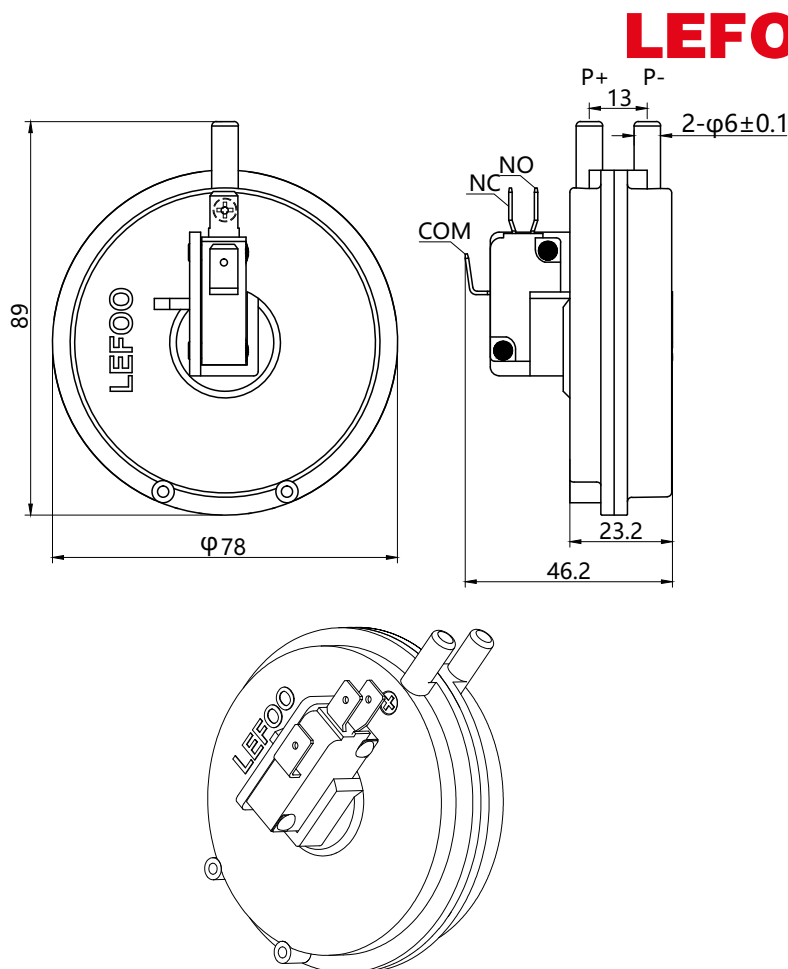
Model	LF25					
Media	Non hazardous gas, liquid or steam					
Operating Pressure	0.2-0.6bar	0.5-1.0bar	1.0-2.5bar	2.0-4.0bar	3.0-7.0bar	5.0-9.0bar
Proof Pressure	3bar	3bar	10bar	10bar	10bar	10bar
Operating Temperature Range	+125℃ Max imum					
Contact Arrangement	SPST or SPDT					
Electric Rating	SPST or SPDT /Normal Close:16(4)-250VAC (other ratings are available if necessary)					
Terminal	6.3 or 4.8mm male Q.C. Insulation cover is available if necessary					
Connection	1/8NPT-27 or 1/4NPT-18 Male (other connection is optional)					

Conversion: 1kgf/cm² = 14.2psi 1bar = 14.5psi

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LF30

Air differential pressure switch



Dimension in:mm

The LF30 employs a differential pressure to actuate a precision snap switch at chosen pressure setting. This may be the difference between atmospheric and a negative or positive pressure or between any two given pressures. When a change of pressure occurs between the negative pressure chamber and the positive pressure chamber the main diaphragm activates the snap switch at a pre-determined value.

LF30 Order Ref NO

LF30 -4 1 1 1 -P70Pa-100Pa

A B C D Pressure setting in pa:P=Positive V=Vacuum
ON:100Pa OFF:70Pa

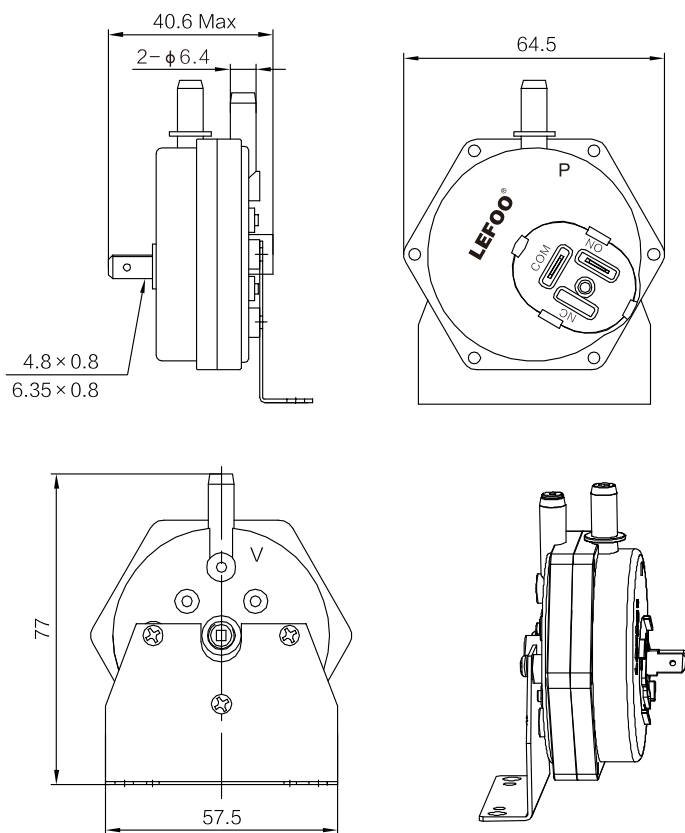
Number	Electrical Rating	Terminals	Mounting/Fixing	Orifice
0	/	/	none	none
1	0.1A,125/250VAC	B 6.3×0.8mm	C with bracket	D with orifice
2	3A,125/250VAC	4.8×0.5mm	/	/
3	5A,125/250VAC	/	/	/
4	A 15A,125/250VAC	/	/	/

Specification

Model	LF30
Medium	Air, smoke (smoke after combustion of gas), non-corrosive gas
Fixing method	L-shaped bracket
Installation	LF 30 should be installed with diaphragm in vertical place, Please contact us before you install it horizontally.
Pressure range	35~1000Pa positive and negative pressure range, the min upper limit pressure is 35Pa, the min lower limit pressure is 6Pa, and pressure difference is not adjustable
Pressure resistance	5000Pa
Operating temperature	≤105°C
Rated voltage, current	0.1A,5A,16A,125/250VAC
Contact method	SPDT or SPST
Terminal	6.35×0.8 or 4.8×0.5 standard flat blade
Tolerance	At room temperature, the tolerance is ±10Pa or ±10%Pa, whichever is greater

Conversion:1mbar=100Pa 1"WC=249Pa

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Dimension in : mm

LF31

Air differential
Pressure switch



LF31 switches offer pressure, vacuum and differential models capable of sensing very low setpoints, and switching current up to 5A resistive, 2.5A inductive. Designed for use in the HVAC industry, where reliable air proving is critical to both performance and customer safety. The LF31 is a favorite with leading manufacturers of gas-fired warm air furnaces and water heaters.

LF31 Order Ref NO

LF31 -S P D 0.05 L/ 125 Pa

A B C D E F G

A Contact Material:S=Silver,G=GOLD

B Actuation Mean:V=Vacuum,P=Positive pressure

C Contact Arrangement:S=SPST,D=SPDT

D Orifice diameter in thing of an inch

E Direction of actuation pressure:L=Increasing,D=Decreasing

F Set point:125,norminal set from 0-3000Pa

G Unit actuation pressure abbreviated:in W.C.,psi,Pa,mbar,etc

Specification

MODEL	LF31
Media	Air,products of combustion or natural gas
Operating Pressure Range	0.15in W.C. to 34in W.C.
Mounting Position	Diaphragm in any vertical Plane
Proof Pressure	100in W.C.(3.6psi)
Burst Pressure	5psi Minimum
Operating Temperature	-40°C to +85°C
Contact Arrangement	SPSP or SPDT
Electrical Rating	Resistance:initial < 50 milliohms Current:100mA minimum,5A(resistive)maximum(fine silver alloy contacts) 15mA minimum,0.5A maximum(gold-platinum-silver alloy contacts)
Termimnal	6.3mm or 4.8mm copper alloy
Connection	ϕ 6.4mm for tube connection

Conversion:1in W.C.=249Pa 1mbar=100Pa

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LF32

Air differential Pressure switch



The LF32 is an adjustable differential pressure switch capable of detecting miniscule changes in pressure due to the size and proven design. The switch set point or switching point can be field adjustable without the need of a manometer by simply using the adjustment knob and the built in calibrated visual scale. This switch is equipped a clear cover that not only protects the adjustment knob to be move involuntary but also provides class IP54 protection

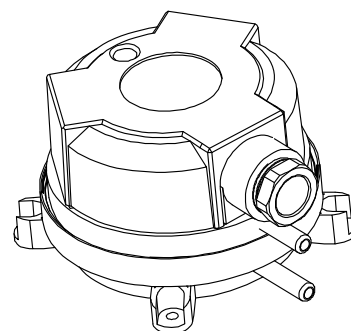
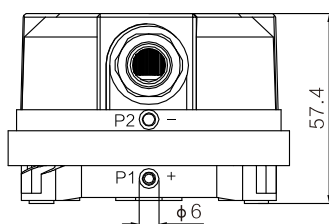
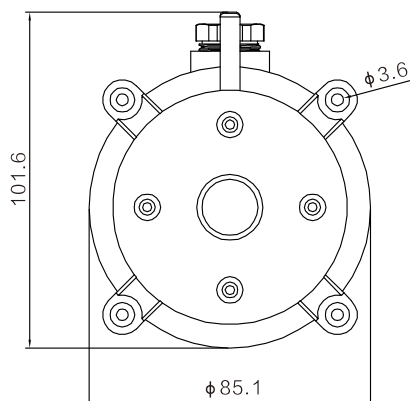
LF32 Pressure Range

Model	Pressure Range	Differential	Tolerances
LF32-02	20-200(Pa)	10(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-03	30-300(Pa)	10(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-03A	20-300(Pa)	10(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-04	40-400(Pa)	20(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-05	50-500(Pa)	20(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-05A	30-500(Pa)	20(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-06	60-600(Pa)	20(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-06A	40-600(Pa)	20(Pa)	$\leq \pm 15\%$, min ± 10 Pa
LF32-10	200-1000(Pa)	100(Pa)	$\leq \pm 15\%$
LF32-11	100-1000(Pa)	50(Pa)	$\leq \pm 15\%$
LF32-15	100-1500(Pa)	50(Pa)	$\leq \pm 15\%$
LF32-20	200-2000(Pa)	100(Pa)	$\leq \pm 15\%$
LF32-25	500-2500(Pa)	150(Pa)	$\leq \pm 15\%$
LF32-45	500-4500(Pa)	250(Pa)	$\leq \pm 15\%$
LF32-50	1000-5000(Pa)	250(Pa)	$\leq \pm 15\%$

Specification

MODEL	LF32
Media	Air, non-combustible and ono-aggressive gass
Max Operating Pressure	10kPa
Mounting Position	Diaphragm in any vertical Plane
Degree of protection	IP54(with cover),IP00(without cover)
Operating Temperature	-40°C to +85°C
Contact Arrangement	SPDT
Electrical Rating	Resistance: initaial < 100 milliohms Current: 1.5A(0.4A)/250V
Termimnal	6.3mm × 0.8 blade or screw terminal
Connection	Φ6.4mm for tube connection

Conversion: 1in W.C.=249Pa 1mbar=100Pa


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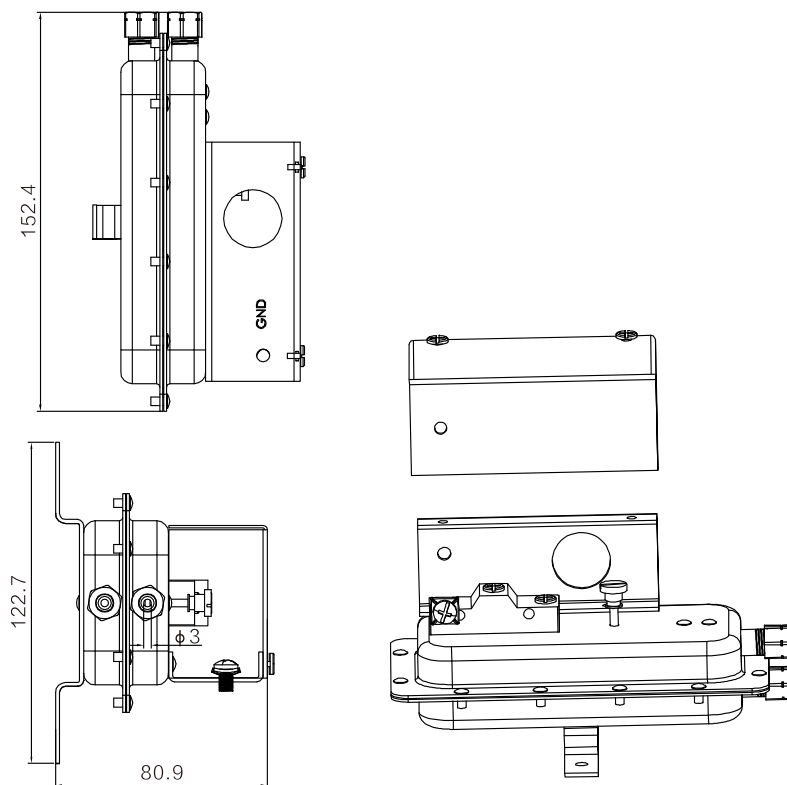
Dimension in : mm

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LF35

**Air differential
Pressure switch**



Dimension in : mm



28

LF35 Order Ref NO

LF35 - 1 1 A 1 - P0.5mbar

A B C D Pressure setting:P0.5mbar P=Positive;V=Vacuum

The LF35 are general purpose airflow proving switches designed for HVAC, detection of blocked filters and fan suction, air flow monitoring in ducts, pipes, tunnels, and other energy management applications. It may be used to sense positive, negative or differential air pressure.

A Operating Pressure:1=0.5mbar-30mbar;2=0.2mbar-5.0mbar

B Connection:1=accept 0.25"OD rigid or semi-rigid tubing;2=Male 0.25"slip-on connectors,suitable for flexible tubing

C Mounting/Fixing:A=Bracket A;B=Bracket B

D Wire Protecting:0=None;1=with protecting on closure

Specification

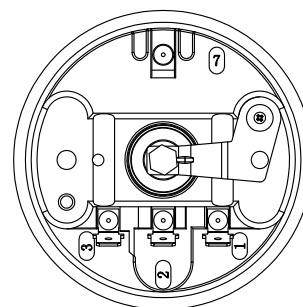
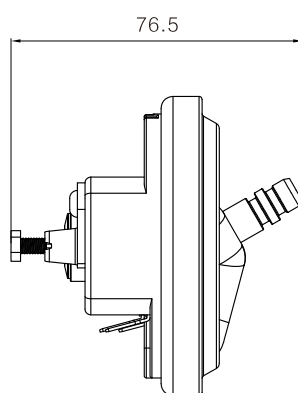
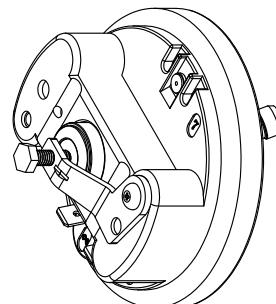
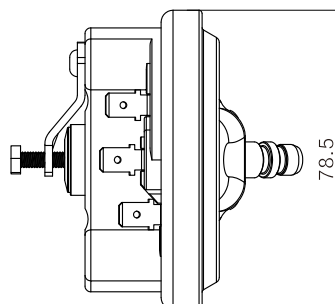
MODEL	LF35-1	LF35-2
Media	Air	
Mounting Position	Diaphragm in any vertical Plane	
Field Adjustable Range	0.5±0.05mbar to 30.0mbar	0.2±0.05mbar to 5.0mbar
Switch Differential	Progressive,increasing from approximately 0.05mabr at minimum set point,to approximately 2.0mbar at maximum set point	Progressive,increasing from approximately 0.05mabr at minimum set point,to approximately 0.25mbar at maximum set point
Maximum Pressure	30mbar	
Operating Temperature	-40°C~+82°C	
Electrical Rating	300VA pilot duty at 115-277VAC,10A,non-inductive,277AVC	
Connection	Ferrule and nut compression type connectors that accept 0.25"OD rigid or semi-rigid tubing;male 0.25"slip-on connector	
Contact Arrangement	SPDT	

Conversion:1mbar=100Pa 1"W.C=249Pa

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LF37

Liquid level
Pressure switch



Dimension in:mm

LF37 diaphragm pressure switch is available for various sumps, effluent, and sewage application to control the liquid level. Various switch settings are available for to turn-on or turn-off the pump. The diaphragm pressure sensing design make it more reliable than traditional float ball mechanism. Port connection design make it can sense the pressure without immersing the liquid directly.

LF37 Order Ref NO

LF37 - 1 1 1 -4.5"-6"H₂O

A B C Pressure setting:cut in :6"H₂O ; cut off :4.5"H₂O

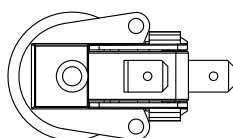
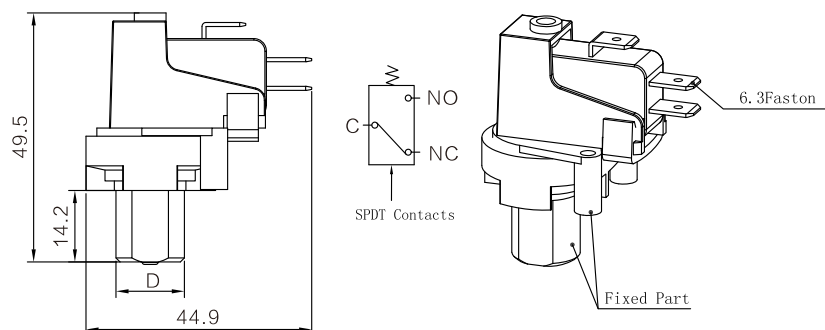
Number	Connection Type	Contact Arrangement	Enclosure
0	/	/	none enclosure
1	A Diaphragm	B SPDT	C with enclosure
2	Φ6mm for tube	SPST-NO	/
3	1/4NPT	SPST-NC	/

Specification

Model	LF37
Media	Air,water or other non-hazardous liquid
Basic function	Diaphragm Pressure switch operation:provide water level signals to appliance control,level value can be set on customer request
Pressure Range liquild level Range	2~60 in W.C.
Proof Pressure	5psi
Contact Type	SPDT,SPST-NC/NO
Electrical Rating	12/13.8A,125VAC 10A,250VAC 1/2HP;125/250VAC 3/4HP;125/250VAC
Ambition Temperature	40℃
Terminal	6.3×0.8 blade

Conversion:1mbar=100Pa 1"W.C=249Pa

LEFOO



Dimension in:mm



Button



LF40 combination switch box

LF40-01

Air actuated
pressure switch



LF40-01 is provided with a snap action switching for higher current capacity, SPDT contact form and switch deadbands. It can be used together with air button for remote control purpose, which is widely used in food waste disposer, pumps for swimming pools and spas, hot tubs, sanitary equipment, medical equipment etc. As a remote control, LF40-01 has two actions, momentary action and Alternate action.

LF40-01 Order Ref NO

LF40-01-1 M 1 3 1 -3psi

A | **B** **C** **D** Set Point(psi):3psi

Action Type:M=Momentary action; A=Alternate action

Number	Connection Type	Body Color	Electrical Rating	Terminal
1	A 4mm OD tube side entry	B white	0.1A,125/250VAC	D 0.25inch blade
2	4mm OD tube+NPT1/4 connection bottom entry	black	3A,125/250VAC	0.187inch blade
3	1/8NPT bottom entry	/	C 5A,125/250VAC	PCB
4	1/8NPT+4mm OD metal tube	/	15A,125/250VAC	/
5	/	/	16A,125/250VAC	/
6	/	/	21A,125/250VAC	/

Specification

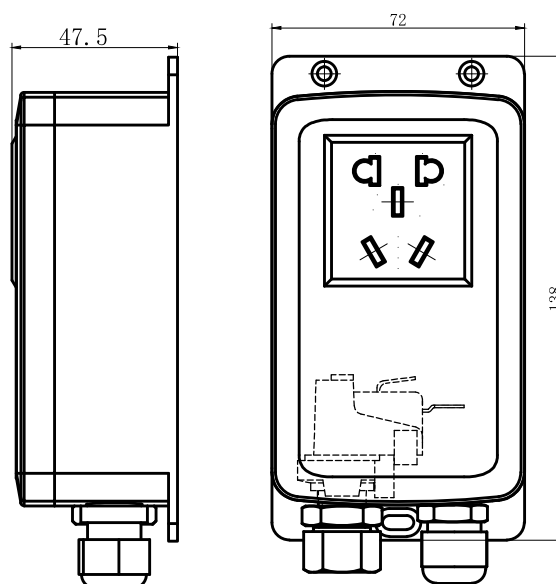
Model	LF40-01
Media	non hazardous gas or liquid
Operating Pressure Range	0.25~15psi for momentary action;1.0~1.8psi for Alternate action
Proof Pressure	50psi
Operating Temperature Range	-10°C to +85°C
Contact Arrangement	SPST or SPDT
Electrical Rating	0.1A,125/250VAC; 15A,125/250VAC 3A,125/250VAC; 16A,125/250VAC 5A,125/250VAC; 21A,125/250VAC
Terminal	6.3 or 4.8mm male Q.C
Connection	Inlet4.0mm for tube connection(Optional1/8"NPT or other fittings are available)

LF40-B

Pressure switch



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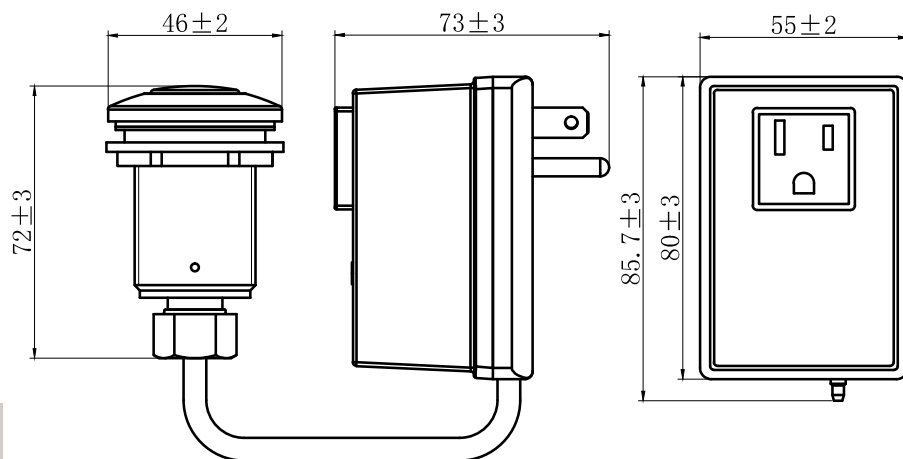
Dimension in:mm

LF40-B is provided with a snap action switching for higher current capacity, SPDT contact form and switch deadbands. It can be used together with air button for remote control purpose, which is widely used in food waste disposer, pumps for swimming pools and spas, hot tubs, sanitary equipment, medical equipment etc.

Specification

Model	LF40-B
Good air tightness	There should be no leakage under 50 psi pressure
Pressure range	<130mbar
Service life	>40000 times
Electrical performance	10A,125/250V
Wiring form	6.3×0.8 mm blade terminal
Electrical circuit	NO-C
Operating temperature	-10°C~85°C
Socket and cable	GB, power cord length 1200mm
Air tube	Ø6 mm tube, length 1000mm

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Dimension in:mm

LF40-C

Pressure switch



LF40-C is provided with a snap action switching for higher current capacity, SPDT contact form and switch deadbands. It can be used together with air button for remote control purpose, which is widely used in food waste disposer, pumps for swimming pools and spas, hot tubs, sanitary equipment, medical equipment etc.

Specification

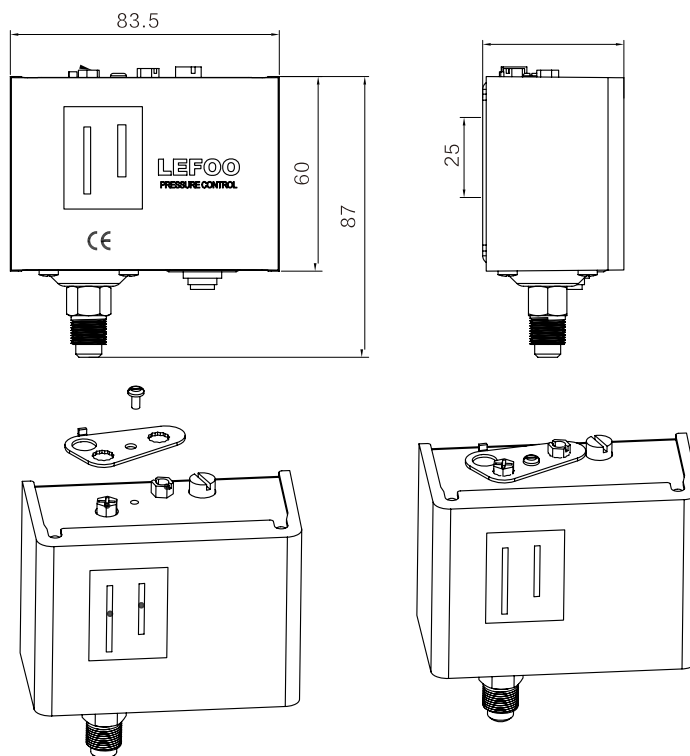
Model	LF40-C
Action type	Alternate action
Pressure range	<130mbar
Electrical circuit	NO-C
Air tube length	Black PVC air tube length 1m
Electrical performance	8A 125VAC
Operating temperature	-10°C~60°C

LF55

Pressure switch for Refrigeration system



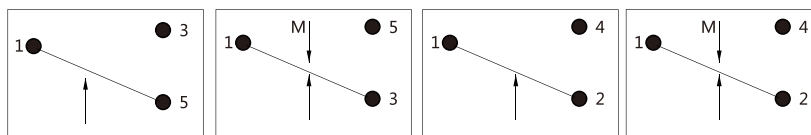
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Contact Function

Dimension in : mm

Arrow means the direction of pressure increasing, M means hand reset



LF55 Series pressure switches are used to control the pressure of compressor in refrigerant system, also available in air or water fluid. This series have quite stable performance with internal micro-switch structure. Standard mounting bracket are provided

Electrical Function

Rated Amps.(A)\Rated Voltage(V)	125VAC	250VAC	24VDC
Full Load	20A	10A	8A
Locked Rotor	72A	72A	64A
Temperature	-20~110°C		

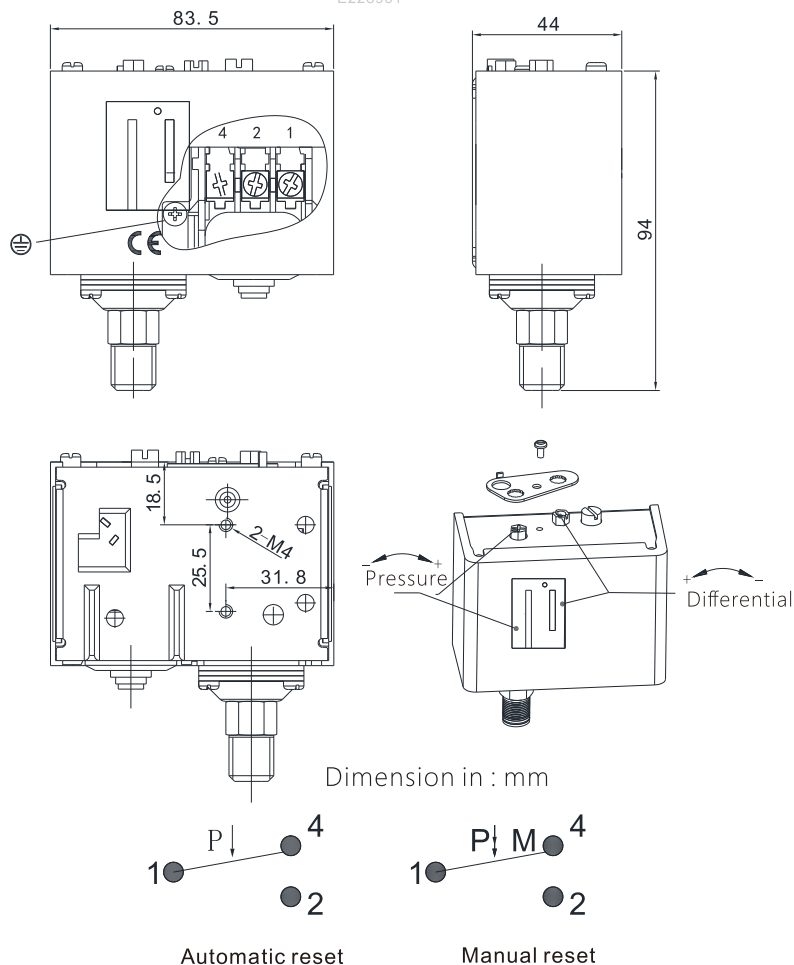
Specification

Model	Range(bar)		Differential (bar)		Factory Setting(bar)		Max Operating Pressure(bar)
	Min	Max	Min	Max	OFF	ON	
LF5502	-0.5	2	0.2	0.7	1	0.5	16.5
LF5503	-0.5	3	0.35	1.5	2	1	16.5
LF5506	-0.5	6	0.6	4	3	2	16.5
LF5506M	-0.5	6	Reset Differential ≤1bar		3	Manual Reset	16.5
LF5508	-0.2	7.5	0.7	4	3	2	20
LF5510	1	10	1	3	6	5	16.5
LF5514	2	14	1	4	10	8	20
LF5516	3	16	1	4	10	8	35
LF5520	5	20	2	5	16	13	35
LF5530	8	30	Fixed 3 to 5bar		20	15~17	35
LF5530M	8	30	Reset Differential ≤4bar		20	Manual Reset	35
LF5530D	5	30	3	10	20	15	35
LF5532	8	32	2	6	20	17	35
LF5542	8	42	4	10	30	25	46.5

Conversion: 1kgf/cm²=14.2psi 1psi=68.95mbar

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USA
E228961



LF55V

Vacuum
pressure switch



LF55V pressure controller is a kind of pressure protection device specially designed for vacuum pressure control of refrigeration or other mechanical systems to prevent the fault caused by air leakage into the system when the degree of vacuum is too low in the system. It is a kind of dynamic controller which acts by receiving the pressure signal. In the refrigeration device, when the low pressure end of the compressor is lower than the set pressure value, the pressure controller will send an electrical signal to cut off the circuit and stop the compressor for safety protection. This pressure controller is not only suitable for refrigerant but also for controlling pressure of gas, water, and oil. The internal

LF55V Order Ref No.

LF55V -1 1 1 1 1-0.7/0.4

A B C D E Action pressure:-0.7bar, Reset pressure:-0.4

Number	A Reset Type	B Connection Type	C Connection specifications	D Cover color	E Bracket type
1	Automatic reset	Male	7/16UNF(1/4SAE)	White	L bracket
2	manual reset	Female	G1/4	Blue	Flat bracket
3			R1/4		U bracket
4			NPT1/4		None
5			M12*1.25		

Specification

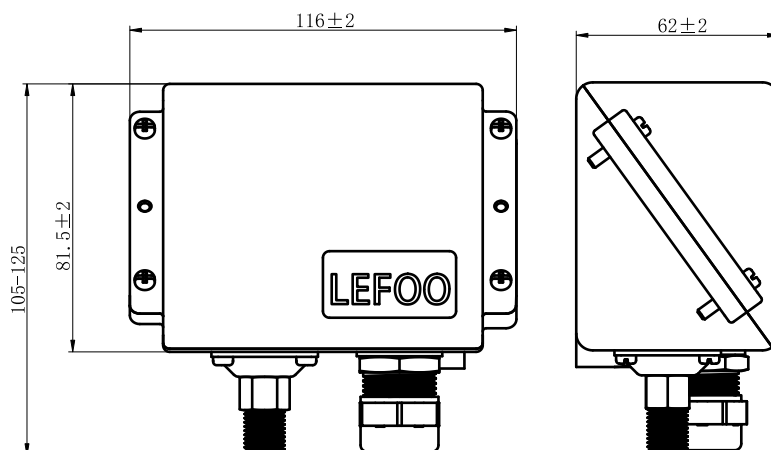
General	Value
Pressure and differential range	Pressure range :-1-0bar,Differential:-0.15-0.5bar
Medium	R22/R134a/R404A/air/liquid etc
Connection material	Nickel plated copper,Other materials such as stainless steel which need to be customized.
Contact arrangement	SPDT
Electrical rating	240VAC/FL8A LR48A 120VAC/FL16A LR96A
Contact material	Moving contact: silver plated; Static contact: all silver
Environment temperature	-20~65°C
Medium temperature	-40~120°C
Protection grades	Ip20 & IP44(with bracket and cover)IP55(with protection cover)
Maximum working pressure	3bar
Voltage withstand	No Breakdown at 2000V for 1 minute
Cable interface	6-14mm diameter cable sealing interface

LF55E

Pressure switch



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Dimension in:mm

LF55E Range of Work Pressure

Unit:bar

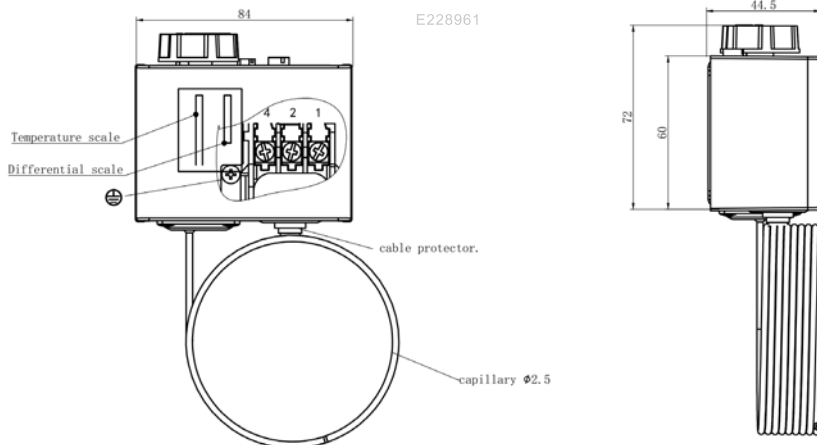
Model	Pressure Range	Differential	Max working pressure
LF5502	-0.5~2	0.2~0.7	10
LF5503	-0.5~3	0.35~1.5	10
LF5506	-0.5~6	0.6~4	17
LF5508	-0.2~7.55	0.7~4	17
LF5510	1~10	1~3	17
LF5514	2~14	1~4	17
LF5516	3~16	1~4	17
LF5520	5~20	2~5	35
LF5530D	5~30	3~10	35
LF5532	8~32	2~6	35
LF5542	8~42	4~10	46.5

Specification

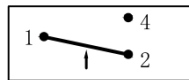
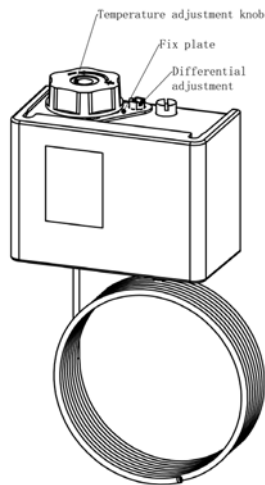
Model	LF55E
Electrical Specifications	240VAC/FL8A LR48A,120VAC/FL16A LR96A
Range of Work Pressure	see chart
Contact Material	silver alloy
Protection Grade	IP67(matching wiring cables must have IP67 rating)
Environmental Temperature	-25°C/+65°C
Medium Temperature	-40°C/+120°C
Cable Interface	Cable sealing inlet with a diameter of 6-14mm

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CAUS
E228961



Attention 1. Pls remove the temperature adjustment knob and fixing plate before adjust the temperature.
2. Pls fix the temperature adjustment knob and fixing plate after finishing the temperature adjustment.



Attention 1. Low temperature protection, pls connect wire 1-4
2. High temperature protection, connect wire 1-2

Dimension in:mm

LF55T
Thermostat



LF55T are used for regulation, but can also be seen in safety monitoring systems. They are available with vapor charge or with adsorption charge. With vapor charge the differential is very small. The LF55T Thermostats with adsorption charge are widely used to give frost protection.

Temperature Range°C	Temperature difference range°C	Setting temperature °C
-30 ~ 15	2-10	-7/-9
-5 ~ 30	2-10	10/7

Specification

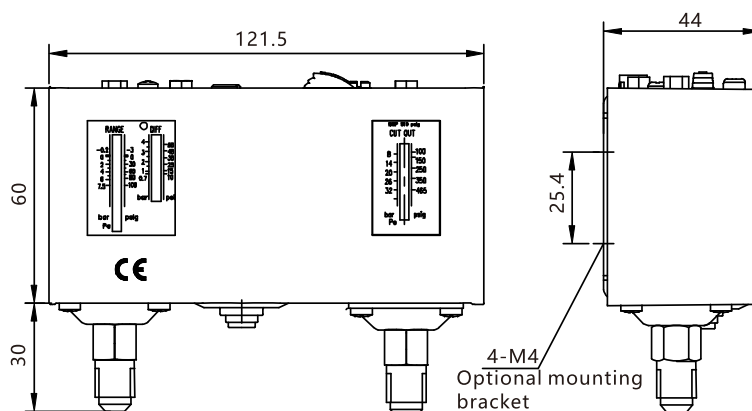
Modle	LF55T
Contact agreement	SPDT
Electrical rating	AC15:10A,240V; DC12W,220V; Contact resistance ≤ 500mΩ
Contact material	static contact: fine silver, movable contact: Silver plated
Breakdown voltage	one min at 2000v no breakdown
Protection grade	IP 30 (IP44 when with bracket and cover)
Environment Temp	-25°C/+65°C
Media Temp	-40°C/+120°C
Mechanical lifespan	100k times
Electrical lifespan	30K times
Max installation torque	2 N/M
Capillary	Φ2.5, The minimum contacting length of the capillary and environment: 0.43m, Capillary length can be customized
Cable connection	Φ 6-14 cable

LF58

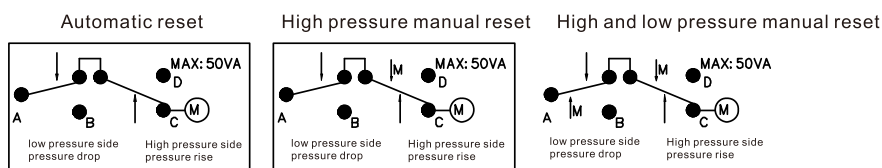
Pressure switch for refrigeration system



LEFOO



Dimension in : mm



model	low pressure side			High pressure side		
	pressure range	Differential pressure range	maximum working pressure	pressure range	Differential pressure range	maximum working pressure
32	-0.2~7.5	0.7~4	17	8~32	4	35
45	2~12	1~4	17	8~45	7	48

unit: bar

LF 58 pressure switch is an automatic control device that receives pressure signals and actuates. It is usually used to control the start and stop of compressors and fans in refrigeration systems. It can also be used in water pumps, fire protection, boilers, hydraulics, ironing and other devices as a safety protection.

LF58Order Ref NO

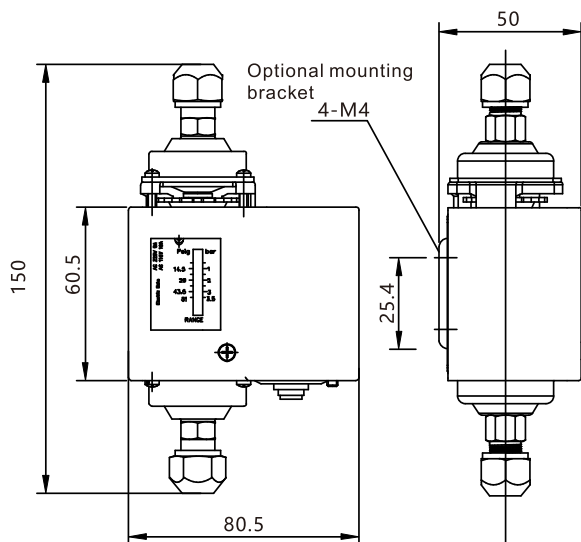
LF 58 -32 N A W L -3bar/2bar-20bar

1 2 3 4 5 6 Low set point High set point

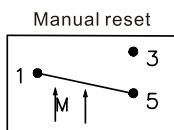
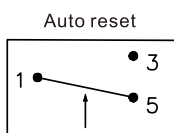
1 model	2 Reset method	3 Protection class	4 Connection Type	5 cover color	6 bracket
32	None=auto reset	N=IP30	A=7/16-20male	W=white	no = no bracket
45	HM=High pressure manual reset	H=IP44	B=G 1/4male	B=Blue	P=flat type bracket
	HLM=High and low pressure manual reset	P=IP55	H=M12*1.25 male		L=L type bracket
			I=copper pipe for welding		U=U-shaped bracket

Specification

General	Value
Medium	R22, R134a, R404A, gas, etc.
Contact method	SPDT
Electrical parameters	240VAC/FL8A LR48A 120VAC/FL16A LR72A
Contact material	Moving contact: covered with silver; Static contact: full silver
Temperature range	Ambient temperature -20~65°C Medium temperature -40~120°C
Withstand voltage	2000V for 1 minute without breakdown
Maximum Mounting Torque	2 N·m
Cable connection	6-14mm diameter cable gland



Dimension in : mm



Model	Differential pressure range	Factory settings	maximum working pressure
2	0.5 ~ 2	0.5	17
4	0.5 ~ 3.5	1	17
4H	0.5 ~ 3.5	1	35
6	1 ~ 6	1	17
6H	1 ~ 6	1	35

unit: bar

LF5D

Oil differential
Pressure switch



The LF5D differential pressure switch is a protective device for refrigeration compressors or pressure lubrication of other mechanical. In the refrigeration system, the switch receives the two pressure signals of the discharge pressure of the lubricating oil pump and the suction pressure of the compressor, and maintains a certain range of difference between these two pressures, and when the difference is smaller than the set value, the switch will actuate immediately to automatically cut off the compressor circuit and stop the compressor, thus protecting the compressor.

LF5D Order Ref NO

LF 5D -2 A W L - 1bar
1 2 3 4 5 set point

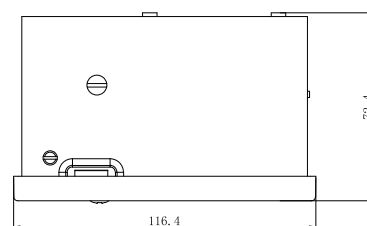
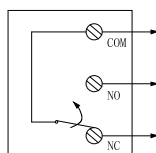
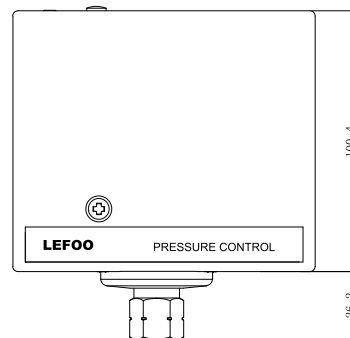
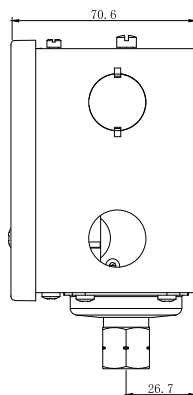
1 model	2 Reset method	3 Connection Type	4 cover color	5 bracket
2	None = auto reset	A=7/16-20male	W=white	no = no bracket
4	M=Manual reset	B=G 1/4male	B=Blue	P=flat type bracket
6		I=M12*1.25 male		L=L type bracket
4H				U=U-shaped bracket
6H				

Specification

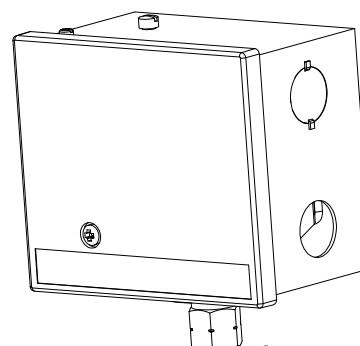
General	Value
Medium	R22, R134a, R404A, gas, etc.
Contact method	SPDT
Electrical parameters	240VAC/FL8A LR48A 120VAC/FL16A LR72A
Contact material	Silver contact
Temperature range	Ambient temperature -20~65°C Medium temperature -40~120°C
Withstand voltage	1500V for 1 minute without breakdown
Maximum Mounting Torque	2 N·m
Cable connection	6-14mm diameter cable gland

LF56

Pressure switch



Dimension in : mm



LF56 series pressure switches are mainly used to control pressure of boiler or water tower regulating system. When the system pressure exceed the setting point, the switch will cut off the circuit for protection. With SPDT contact arrangement, LF56 switch can detect the pressure change and shift the internal status accordingly to control the on/off of external circuits, which is available for the pressure control, limit and alarm of non-hazardous liquid, gas and steam.

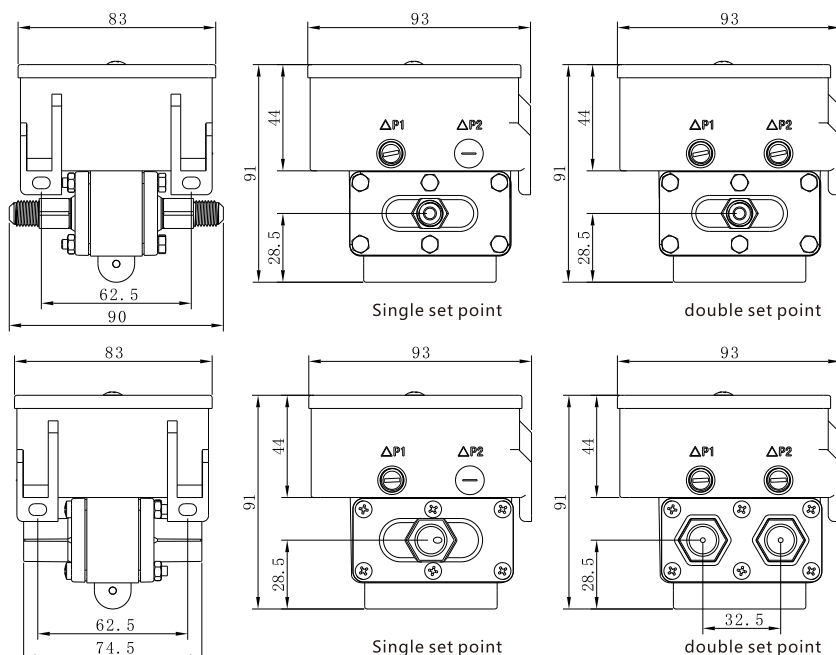
Specification

MODEL	LF56
Contact arrangement	SPDT
Working media	Standard model for oil, water, air, steam, liquid and other non-corrosive media, chlorine-containing liquids are not available.
Ambient temperature	-29°C~66°C
Media Temp	-40°C~180°C non-frozen condition
Pressure Diaphragm	stainless steel
Thermal Material	brass
Connection	NPT1/4、G1/4、R1/4
Electrical Rating	FLA 5.1A/240VAC, 8.0A/120VAC; LRA:30.6A/240VAC, 48.0A/120VAC

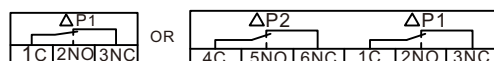
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Installation dimension (mm)



Wiring diagram



Adjustable	Model	Differential pressure adjustable range kPa	Differential	Lap increment
Single Set Point Working Pressure range	52-15	5—15	2~6	1
	52-30	5—30		2.2
	52-70	6—70		5.5
	52-100	6—100	5~10	6.5
	52-200	10—200		16
	52-300	20—300		25
Dual Set Point Working Pressure range	52-400	30—400	2~6/5~10	38
	52-30/100	5—30/6—100		2.2/6.5
	52-70/100	6—70/6—100		5.5/6.5
	52-100/100	6—100/6—100	2~6/5~10	6.5/6.5
	52-100/200	6—100/10—200		6.5/16
	52-200/200	10—200/10—200		16/16
	52-300/300	20—300/20—300	5~10/5~10	25/25
	52-400/400	30—400/30—400		38/38

LF52Series Order Ref NO LE52-A-B-C-D

A Product set point	B Joint thread	C Instructions	D Wiring protection
Single set point	7/16"UNF single connector(Male thread)	Chinese/English	Rubber Gland Pg16
Double set point	G1/4 single connector(female thread)	Chinese	Plastic Gland Pg16
	G1/4 double connector (female thread)	English	Nickel plated at brass Gland Pg16

Specification

General	Value
Media	Non hazardous media such as water, air, oil etc...
Contact arrangement	One/two sets of SPDT (microswitch)
Electrical rating	3A 250VAC 5A 125VAC
Storage temperature	-29~82°C
Ambient temperature	-20~71°C(fluid)
Media temperature	-20~93°C(fluid)
High and low pressure connections	7/16"UNF single connector(Male thread) ;G1/4 single connector(female thread); G1/4 double connector (female thread)
Maximum static pressure	16bar
Maximum differential	10bar
Setting repeatability tolerance	±1%
Degree of protection	Ip54
Accessories are optional (if there is no requirement, the default is selected)	Converted capillary, plastic/metal/rubber/line card, manual in Chinese/English

LF52

Differential Pressure switch



Product introduction:

This adjustable differential pressure switch LF52 is enveloped for sparingly using in different differential value requirements. It is widely applied for detecting the differential of water filter, pump, heat exchanger, chillers and its coil units. When the water flowing (differential) decrease or increase to the setting point, there will be an alarm or cut off output signal for the self-controlling system. It's also available for indicating the status of pump or water filter. Double differential settings pressure switch can take the replacement of the vane flow switch and avoid changing the vane flow switch from chillers each year.

A single set point is a high/low limit that controls the differential pressure between the front and rear ends of a section of pipeline. The double set point is to control the high and low limit of the pressure difference between the front and rear ends of a pipeline, and can also control the high/low limit of the pressure difference between the front and rear ends of the two pipelines.

Reference standard:

- 1.UI508
- 2.GB14048-2000 (Low voltage switchgear and control equipment general provision)
- 3.GB14048.5-2000(Low voltageswitchgear and control equipment, part 5-1 Control equipment and switching elements)
- 4.ROHS certificate.

LF52A

Differential Pressure switch



(1) Product overview:

LF52A series pressure switch is an adjustable differential pressure switch.

It is developed for applications that are used in small quantities and have different requirements for differential pressure values. It is an alternative to paddle flow switches. Avoid the disadvantage that the chiller needs to replace the paddle flow switch every year. When the water flow (differential pressure) in the system rises or falls to the set value, it will output an alarm or cut-off signal to the automatic control system.

The unique small size of LF52A can cope with various narrow installation environments. At the same time, take into account the quality and reliability, and give full play to the product performance. It is widely used in engineering to detect the pressure difference of water filters, pumps, heat exchangers and other chillers and coils. Can also be used to indicate the status of a pump or water filter.

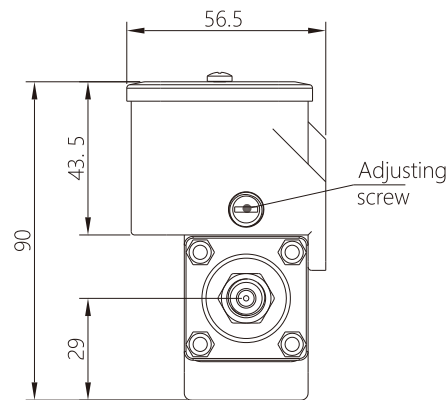
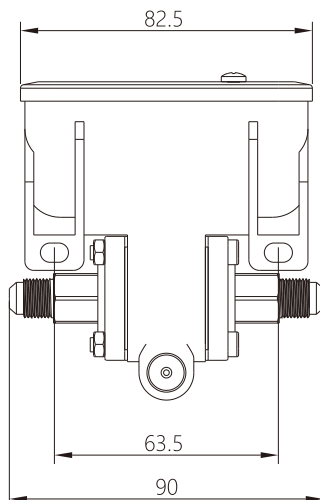
(2) Reference standard:

1. UL508
2. GB14048-2000 "General Rules for Low-Voltage Switchgear and Control Equipment";
3. GB14048.5-2000 "Low-voltage switchgear and control equipment - Part 5-1 Control electrical appliances and switching elements - Electromechanical control circuit electrical appliances"
4. ROHS certification

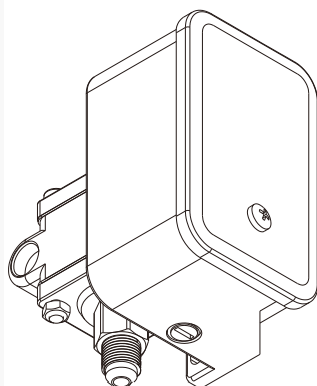
Specification

General	Value
Medium	Water,air,oiland other non-corrosive medium
Contact	Single group SPDT (microswitch)
Electrical Specifications	3A 250VAC 5A 125VAC
Ambient temperature	-20~71°C
Medium temperature	-20~93°C(fluid)
Maximum allowable static pressure	16bar
Maximum allowable differential pressure	10bar
Set point repeatability deviation	±1%
Protection class	IP54
Accessories are optional (default if not required)	Converted capillary

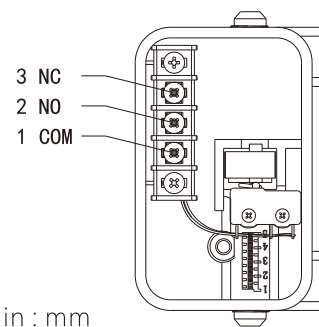
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Wiring diagram



Dimension in : mm



Adjustable	Model	Differential pressure adjustable range kPa	Return difference kPa	One turn variation kPa
working pressure	52A-15	5—15	2~6	1
	52A-30	5—30		2.2
	52A-70	6—70		5.5
	52A-100	6—100		6.5
	52A-200	10—200	5~10	16
	52A-300	20—300		25
	52A-400	30—400		38

LF52A Series Order Ref NO

LF52A-30-1-1-1-1-15kpa

A B C D setpoint

Code	A Connector Material	B Connector Thread	C Instruction Manual	D Wiring Protection
1	Brass	7/16"UNF FEMALE	Chinese and English	Plastic Gland PG9
2	SS 316L	7/16" UNF MALE	Chinese	Plated Gland Pg9
3		R1/4" MALE	English	
4		G1/4" MALE		
5		1/4"NPT MALE		
6		connect φ8 soft tube		
7		connect φ6 steel pipe		

LEFOO

Features

Max liquid pressure: 1 MPa, can be used in multiple applications.

There are 3 stainless steel paddles, can be used in 25 to 75mm diameter pipe.

Number of paddles is changeable and length of paddle is trim-able according to customer requirements.

With additional 6"paddle, FS series liquid flow switch can be used in 100 to 150mm diameter pipe.

Adjustable flow setting, Users can set the flow value according to their requirements.

For user convenience, FS52 flow switch has large room for wiring.

FS51/FS52 can also be provided with stainless steel connection, which is suitable for ammonia and other medium.

Application

The typically application is used to protect the cooling system, when the cooling water is off, FS flow switch can shut off the compressor current efficiently in order to protect the freezer and entire system from being damaged.

Performance Parameter

Electric load:	AC250V 10A
Max working pressure:	10.34Bar
Flow temperature:	0-120℃
Environment temperature:	0-60℃
The endurance of bellows:	500000 cycles
Ingress protection:	IP53

FS5 Series

Liquid flow switch



FS51

FS52

FS series liquid flow switch is designed for managing the flow changes when the liquid flows in the pipe, such as water, ethylene glycol or other non-hazardous liquids. When the liquid flow is higher or lower than the setting value, the single-pole double-throw contacts (SPDT) can get through one circuit and at meantime to break the other circuit. FS series liquid flow switch is commonly used for chain reaction or "no flow" protection.

Specification (FS flow switch)

		Actuate flow (m³/h)													
Pipe Diameter (mm)		25	32	40	50	65	80	100	125	150	200	100*	125*	150*	200*
Min Adjus tment	Flow increase (red blue closed)	0.95	1.32	1.70	3.11	4.09	6.24	14.8	28.4	43.2	85.2	8.4	12.9	16.8	46.6
	Flow decrease (red yellow closed)	0.57	0.84	1.14	2.16	2.84	4.32	11.4	22.9	35.9	72.7	6.13	9.31	12.26	38.6
Max Adjus tment	Flow increase (red blue closed)	2.0	3.02	4.36	6.6	7.84	12.0	29.1	55.6	85.2	172.6	13.4	26.8	32.7	94.26
	Flow decrease (red yellow closed)	1.93	2.84	4.09	6.13	7.23	11.4	27.7	53.4	81.8	165.8	17.3	25.21	30.66	90.85

1. Above flow values are for the reference of choice

2. The figures with " * " symbol are for the 4 paddles flow switch. While, the figures without " * " symbol are for the 3 paddles (1, 2, 3) flow switch.

3. The paddles will be chose according to the flow in the main pipe where the flow switch is installed in.

Installation

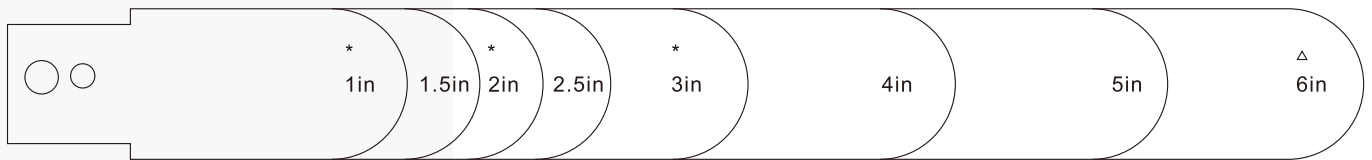
1. Pipe connection: FS series flow switch be provided with 1", 1/2", 3/4" NPT connections.

2. The arrow direction in the cover must be as same as the flow direction in the pipe.

3. The flow switch is suggested to be installed on horizontal pipes, if it have to be on vertical pipes, then the direction in the pipe must be upward flow. It is not allowed to be installed on the vertical lines with downward flow.

4. To avoid the paddle damage, flow reversal is not allowed when the flow switch is working.

The paddle trimming figure



Attention

the paddles with " * " symbol are installed in factory

the paddle with " Δ " symbol is the additional paddle.(not installed)

the balance paddles are for trimming

when install the trimmed paddles, the end of paddle should keep 5--10mm distance from the pipe end and no friction with the pipe

Order Ref No.

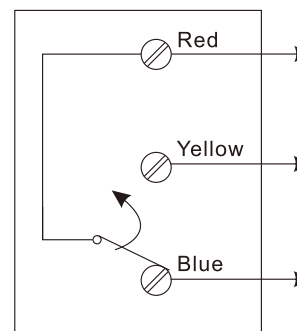
FS51/FS52 - 1 1
 → Connection Material: Brass
 → Connection size: 1"NPT

Code	Connection size	Connection Material
1	1"NPT	Brass (for water or other liquids suitable for brass)
2	1/2"NPT	Stainless steel (for ammonia and other liquids suitable for stainless steel)
3	3/4"NPT	

Wiring diagram

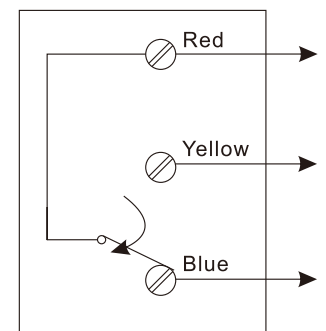
Switch actuate, when the flow increasing and exceed the setting value

Common terminal



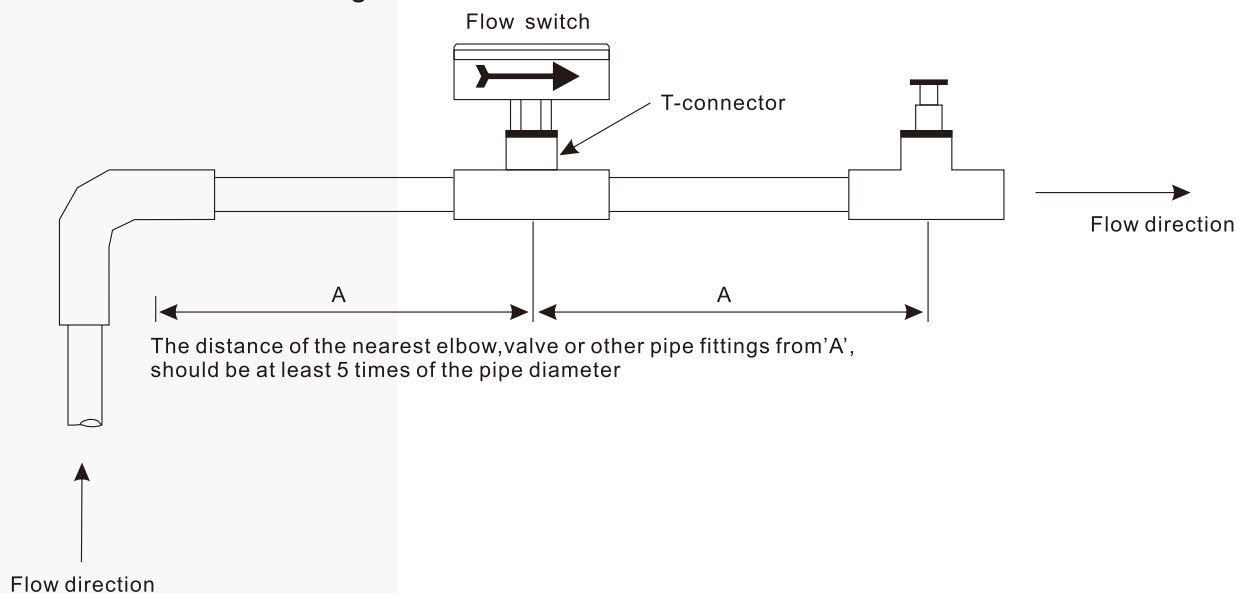
Switch actuate, when the flow decreasing and exceed the setting value

Common terminal

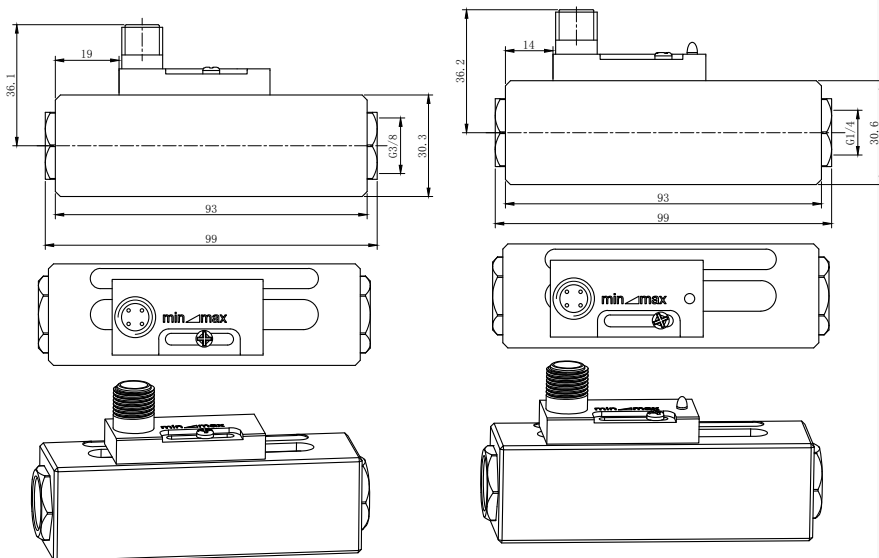


Range adjusting screw

Typical installation drawing

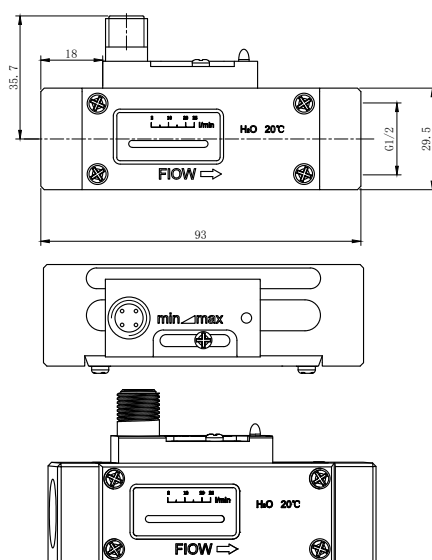


LEFOO



FS201

FS202



FS203

FS200Series

Liquid Flow
Switch



FS201



FS202



FS203

Principle and Structure

Online installation, mechanical flow switch, Be used in liquid or gas media. Solid plastic, aluminum or stainless steel housing are optional.

Main Feature

Very few pressure loss, satisfactory repeatability and anti-pollution, mechanical and electronic parts are isolated completely. More accurate setting accuracy, with setting dial gauge, easy setting, user no need to set on site, switch status displays in LED.

Application

Can be used in both gas and liquid, industrial automation, mechanical equipment, air compressor industrial, HVAC.

Order Ref No

FS201(202 203)- 2 113 11

A B C D E F

code	Pipe Diameter	Connection	Distributing Detail	Materials	Alarm setting range	Electrical Connection
1	Thread connection G1/4	B Female thread	C DC distributing 24V±20%DC	POM reinforced plastics	E 0.6...8L/Min (Lower limited alarm :0.1...7L/Min)	F M12 plug
2	A Thread connection G1/2	/	AC distributing 230V±15%AC	Anodic Aluminum Oxide Materials	1...15L/Min	Hirschmann plug
3	Thread connection G3/8	/	/	D 304 stainless steel	2...28L/Min	/
4	Thread connection G3/4	/	/	/	27...70L/Min	/
5	Thread connection G1	/	/	/	/	/

Specification

General	Value
Setting Range	See Specification Sheet
Accuracy	±5% total range
Delay	Depend on different switches, Minimum 0.5L/Min
Setting Scale	20°C water as media, horizontally installation in marked position Change of media and temperature can influence the value
LED display	Only available in DC distributing
Terminal	M12 and Hirschmann plug
Output	Reed switch, capacity: 24VDC/250VAC, 100mA
Proof Pressure	50bar(aluminum) 200bar(stainless steel)
Average Pressure Loss	0.3bar(25L/min)
Return Difference	Related to the switch value, minimum 0.5L/Min
Temperature of media	0-100°C/0-160°C(high temperature option)
Protection Degree	IP65
Engineering plastics materials	Housing: POM engineering plastics
	Plunger: POM engineering plastics
	Spring: 316L stainless steel SUS1.4310
	Seal: NBR
	Magnet: Barium
Anodic Aluminum Oxide Materials	Housing: Anodic Aluminum Oxide
	Plunger: POM engineering plastics
	Spring: 316L stainless steel SUS1.4310
	Seal: NBR
	Magnet: Barium
Stainless Steel Materials	Housing: 304 stainless steel
	Plunger: POM engineering plastics
	Spring: 316L stainless steel SUS1.4310
	Seal: NBR
	Magnet: Barium

Specification

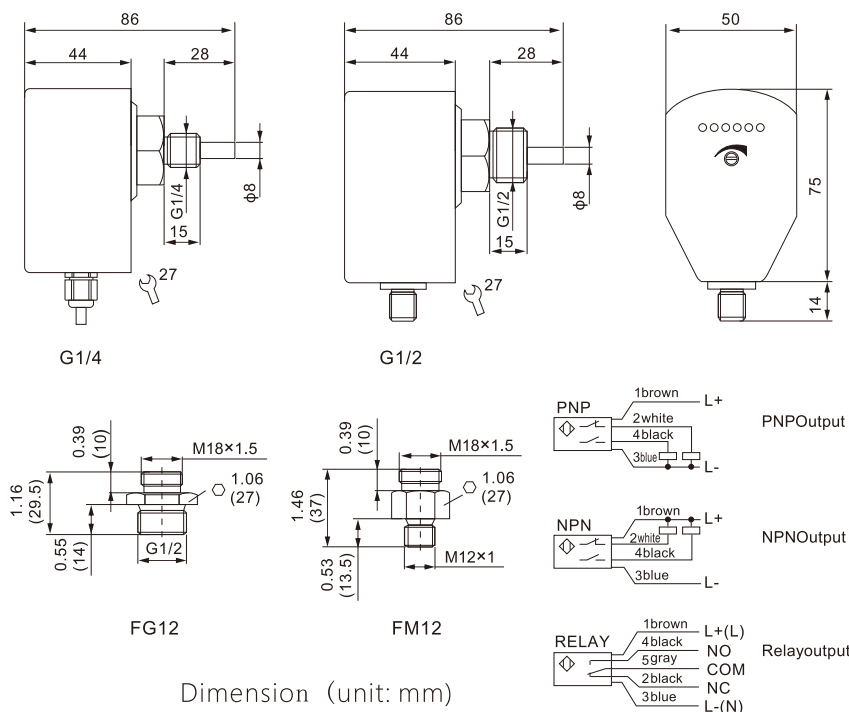
specification											
	Model	Proof Pressure	Maximum Flow	Changeable range	G	L	H	B	X	Weight	
		Kg	L/min(water)	L/min(water)	mm	mm	mm	mm	mm	Kg	
Anodic Aluminum Oxide Materials (stainless steel)	FS201.202.203	Max inmun 200 Kg	40	0.6(0.1) 8(7)	G1/4	93	36	30	12	0.22 (0.53)	
				0.6(0.1) 8(7)	G3/8				15	0.20 (0.51)	
				0.6(0.1) 8(7)	G1/2					0.18 (0.48)	
				0.6(0.1) 8(7)	G3/4	105		0.23 (0.65)			
				0.6(0.1) 8(7)	G1	105		40		0.32 (0.82)	
				1(0.5) 15(13)	G1/4	93		30	12	0.22 (0.53)	
				1(0.5) 15(13)	G3/8				15	0.20 (0.51)	
				1(0.5) 15(13)	G1/2					0.18 (0.48)	
				1(0.5) 15(13)	G3/4	105		0.23 (0.65)			
				1(0.5) 15(13)	G1	105		40		0.32 (0.82)	
				2(0.8) 28(25)	G1/2	93		30		0.18 (0.48)	
			80	2(0.8) 28(25)	G3/4	105		35		0.23 (0.65)	
				2(0.8) 28(25)	G1			40		0.32 (0.82)	
			120	27(21) 70(66)	G3/4			105		35	0.23 (0.65)
				27(21) 70(66)	G1					40	0.32 (0.82)

Remark:

1. Data in above parentheses is reset point while the other is operating point, Please refer to reset point data while in lower limit alarm(monitring too small flow), and refer to operating point data while in upper limit alarm(monitring too large flow)
2. Above data is based on the test that switch is installed on horizontal pipe vertically and use 20°C water as media.
3. Above proof pressure data is based on 304 stainless steel materials, proof pressure 50bar, 20bar are optional either.

FS211

Electronic flow switch



Principle Structure:

There are two resistors in the enclosed probe based on the thermal principle. One of them is heated as the detection resistor and the other is not heated. As the reference resistance, when the medium flows, the heat on the heating resistor is taken away. The resistance value is changed, the two resistance differences are used as the basis for judging the flow rate.

Features:

No moving parts, maintenance-free, easy to install, one type can meet a variety of diameter requirements. Switching value is continuously adjustable, very low pressure loss, compact structure, LED display flow trends and switch status.

Application:

Gas-liquid dual-use type, used for pneumatic and hydraulic systems, circulating water, cutting fluid and lubricating oil flow monitoring, and pump idling protection.

FS211 Order Ref No

FS211-G2-H-D-P-R-Q

1 2 3 4 5 6

1 Pressure Connection	2 Connection Type	3 Power Supply	4 Output	5 Output method	6 Connector Type
G2=G1/2	H=Male	D=VDC24V±20%Power Supply	P=PNP Output	R=NO+NC Output	Q=Socket Connector Type
G4=G1/4			N=NPN Output		
			C=Relay output		

Socket Connector Order Ref No

ST04-PU-02-F-G

1 2 3 4 5

1 Socket Connector	2 Material	3 Line length	4 Female plug	5 Shape
ST04=M12	PU=PU	02=2M	F=F	G=Straight type
ET04=M12		05=5M		W=Curved type
		10=10M		

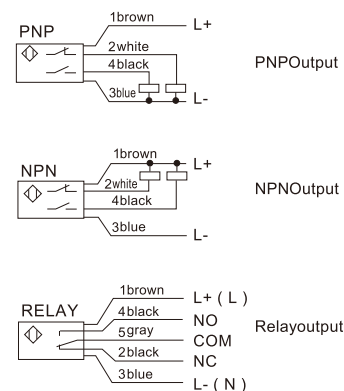
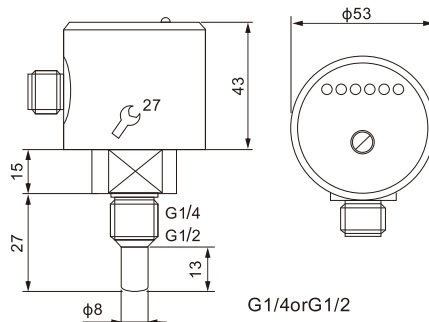
Note: The relay type products need to use 5-pin connector, type and core connector, Just change S (E) T04 to S (E) 05

Specification

Setting Range	1...150cm/s(Water),3...300cm/s(Oil), 20...2000cm/s(Gas)	Initialization time	About 8s
Signal output	PNP, NPN, Relay Type, NO+NC	Electrical protection	Reverse, short circuit, overload protection
Power Supply	24V±20%DC or 230V±15%DC	Protection level	IP67
Turn on current	Max 400mA(PNP, NPN); Max 4A (Relay Type)	Medium temperature	-20~80℃
No-load current	Max 80mA	Ambient temperature	-20~80℃
Flow indication	LED (6pcs)	Storage temperature	-20~100℃
Setting Type	Potentiometer Setting	Connection mode	M12 Socket Connector/Attached 2 meters optional
Proof Pressure Range	100bar	Material	Probe: stainless steel; Housing: PBT
Medium temperature change	≤4℃/s	Weight	About 0.4kg
Response time	1--13s,Typical value 2s		

FS213

Electronic flow switch



Principle, Structure:

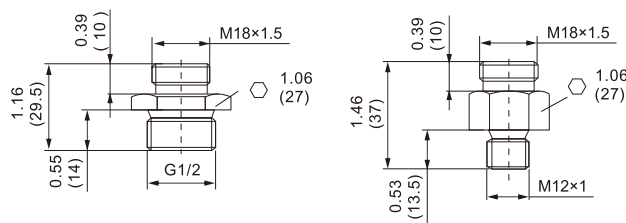
There are two resistors in the enclosed probe based on the thermal principle. One of them is heated as the detection resistor and the other is not heated. As the reference resistance, when the medium flows, the heat on the heating resistor is taken away. The resistance value is changed, the two resistance differences are used as the basis for judging the flow rate.

Features:

No moving parts, maintenance-free, easy to install, one type can meet a variety of diameter requirements. Switching value is continuously adjustable, very low pressure loss, compact structure, LED display flow trends and switch status.

Application:

Gas-liquid dual-use type, used for pneumatic and hydraulic systems, circulating water, cutting fluid and lubricating oil flow monitoring, and pump idling protection.



Dimension (unit: mm)

FS213 Order Ref No

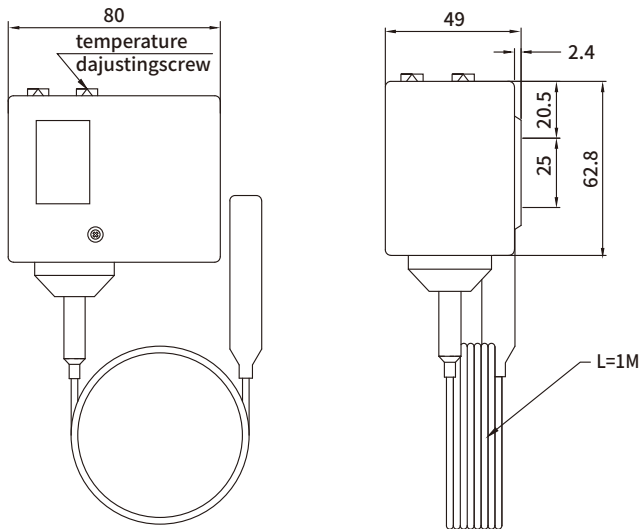
FS213-G2-H-D-P-R-Q

1 2 3 4 5 6

1 Pressure Connection	2 Connection Type	3 Power Supply	4 Output	5 Output method	6 Connector Type
G2=G1/2	H=Male	D=VDC24V±20%Power Supply	P=PNP Output	R=NO+NC Output	Q=Socket Connector Type
G4=G1/4			N=NPN Output		
			C=Relay output		

Specification

Setting Range	1...150cm/s(Water),3...300cm/s(Oil), 20...2000cm/s(Gas)	Initializtion time	About 8s
Signal output	PNP, NPN, Relay Type, NO+NC	Electrical protection	Reverse, short circuit, overload protection
Power Supply	24V±20%DC	Protection level	IP67
Turn on current	Max 400mA(PNP, NPN); Max 1A@24V ac/dc (Relay Type)	Medium temperature	-20~80℃
No-load current	Max 80mA	Ambient temperature	-20~80℃
Flow indication	LED (6pcs)	Storage temperature	-20~80℃
Setting Type	Potentiometer Setting	Connection mode	M12 Socket Connector
Proof Pressure Range	100bar	Material	Probe: stainless steel; Housing: stainless steel
Medium temperature change	≤4℃/s	Weight	About 0.4kg
Response time	1--13s,Typical value 2s		



Dimension (unit: mm)

TS

Temperature controller



TS series temperature controller can be directly connected to single phase motor under 1KW, or installed in controller circuit of DC motor and large AC motor. TS series temperature controller can match with solenoid valve to control the temperature of the refrigerator. TS series temperature controller is equipped with a SPDT double throw switch. The switching points depend on the setting value of temperature controller and temperature thermometer bulb sense.

Specification

Model	Adjusting range (℃)	Factory settings (℃)		The highest temperature of thermo-bulb (℃)	Dimension of thermo-bulb (mm)		Working conditions (℃)
		ON	OFF		Length	Diameter	
TS30	-30~0	-19	-14	45	80	10	TS>TB
TS15	-15~15	-5	0				
TS40	0~40	17	20	70	120	12	ALL
TS90	40~90	55	60	120			
TS120	70~120	90	95	130			

Note: 1.TS -bulk temperature, TB-the temperature thermo-bulb sense
2.The length of the standard capillary is 1m.

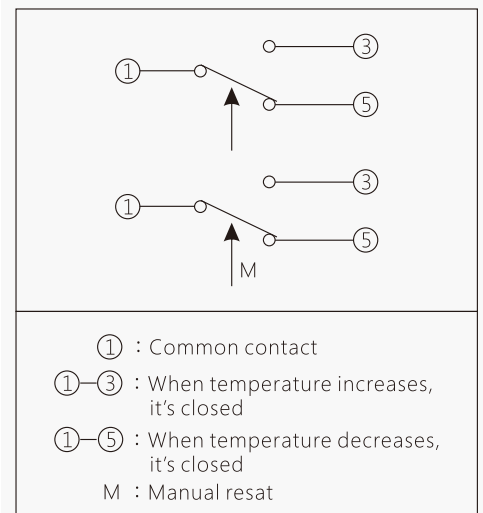
Environment temperature: -20~70

Wire connection: Diameter of wire entrance hole: 15mm

Electrical Ranting

Rated Voltage (V)		Rated Current (A)	
		A.C.110	A.C.220
Non-induced current		20A	10A
Induced current	Full load current	15A	8A
	Instantaneous current	72A	

Contact Form

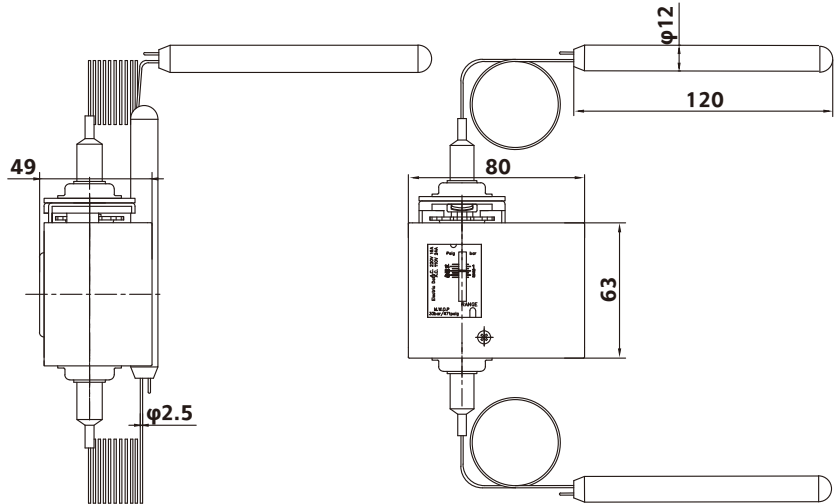


TSD

Differential temperature controller



TSD is differential temperature controller has two thermo-bulbs to sense the differential temperature. After comparing the differential temperature with the setting value, the differential temperature controller will putout a differential signal to make the temperature controller work. The differential temperature controller can keep a constant value of differential temperature between two medium in general ventilation and some cooling devices. The two relative thermo-bulbs, one is for temperature reference, the other one is for controlling signals. Differential temperature is directly controlled parameters.



Dimension (unit: mm)

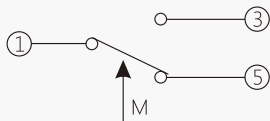
Specification

Model	Differential temperature setting range	Setting the action differential temperature of the Min. differential temperature	Working temperature range	The highest temperature of thermo-bulb
TSD40	0℃ ~ 15℃	≤ 3℃	-25℃ ~ 40℃	60℃
TSD100	5℃ ~ 25℃	≤ 5℃	20℃ ~ 100℃	150℃

Environment temperature: -20~70

Wire connection: Diameter of wire entrance hole: 15mm

Contact Form



① : Common contact

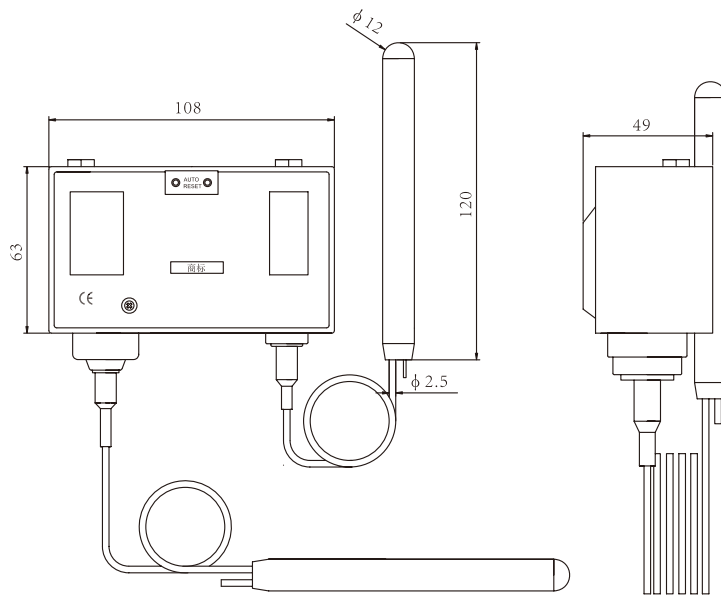
①—③ : When temperature increases, it's closed

①—⑤ : When temperature decreases, it's closed

M : Manual reset

Electrical Ranting

Rated Voltage (V)		A.C.110	A.C.220
Rated Current (A)			
Non-induced current		20A	10A
Induced current	Full load current	15A	8A
	Instantaneous current	72A	



Dimension (unit: mm)

TSH

Dual temperature controller



TSH is dual temperature controller with two independent temperature control functions. It's used in refrigeration equipment to prevent high temperature of compressor's discharge, at the same time to ensure proper temperature of compressor oil. One of high temperature thermo-bulb(HT) is put in pipe of compressor discharge, another one(OIL) is in compressor's oil sump. Protective shutdown will be performed when any one of thermo-bulbs is over temperature limit.

Specification

Model	Low side			High side		
	Temperature setting range	Differential temperature adjustable range	The highest temperature of thermo-bulb	Temperature setting range	Differential temperature adjustable range	The highest temperature of thermo-bulb
TSH160	50℃~110℃	10℃~30℃	130℃	80℃~160℃	≤15℃	180℃
TSH160HM	50℃~110℃	10℃~30℃	130℃	80℃~160℃	Manual reset	180℃
TSH160LHM	50℃~110℃	Manual reset	130℃	80℃~160℃	Manual reset	180℃

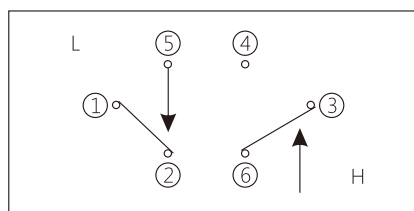
Environment temperature: -20~70

Wire connection: Diameter of wire entrance hole: 15mm

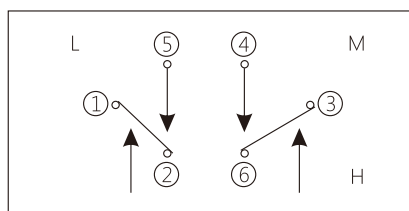
Electrical Ranting

Rated Voltage (V)		Rated Current (A)	
		A.C.110	A.C.220
Non-induced current		20A	10A
Induced current	Full load current	15A	8A
	Instantaneous current	72A	

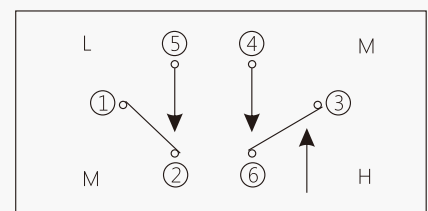
Contact Form



TSH160



TSH160HM



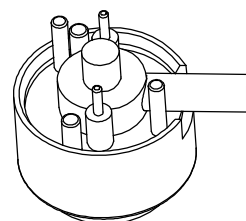
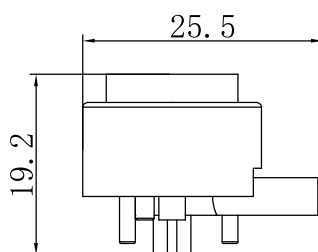
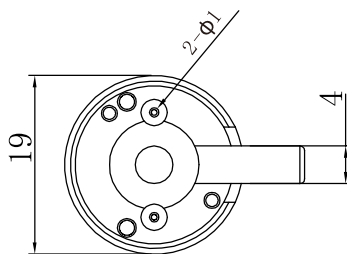
TSH160LHM

LFS-01

Miniature pressure &
Vacuum switch



LEFOO



Dimension in:mm

negative and positive pressure, such as the family vacuum cleaner. The switch have many electrical connection type, such as different wire leads, terminals, socket and solder pin connection(special design for the installation of Printed Circuit Boards). It is designed as an economical interface between pressure systems and Printed Circuit Boards with no delay nearly.

LFS-01 Order Ref NO

LFS -01 0 0 0 W10 R135 - V90
A B C D E F

A Connection Type:D=Pressure & Vacuum Connection ; 0=Vacuum Connection

B Contact Carrying parts:0=Brass Silver Plated ; G=Brass Golden Plated

C Connection Size:0=4mm OD tube

D Wire Lead:0=Without,Wxx=Length of wire lead in inches,i.e.W10=10inch wire lead;Terminal is available on customer's request

E Inlet Rotation:0=Aligned,Rxx=Angle(xx in Degrees) i.e.R135=135°

F Pressure setting in mbar: i.e. V90=90mbar vacuum, P90=90mbar positive

Specification

Model	LFS-01
Media	Non-hazardous gas only
Electrical Function	1 pole NO
Electrical Rating	20mA,125/250V~
Ambient Temperature	-10°C to +90°C
Electrical Connection	solder pins 1.0mm,10mm between away from each other or with different leads and terminals
Pressure Range	Pressure:10-800mbar; Vacuum: 10-800mbar
Maximum Pressure	1000mbar
Connection	Inlet 4.0mm for tube connection

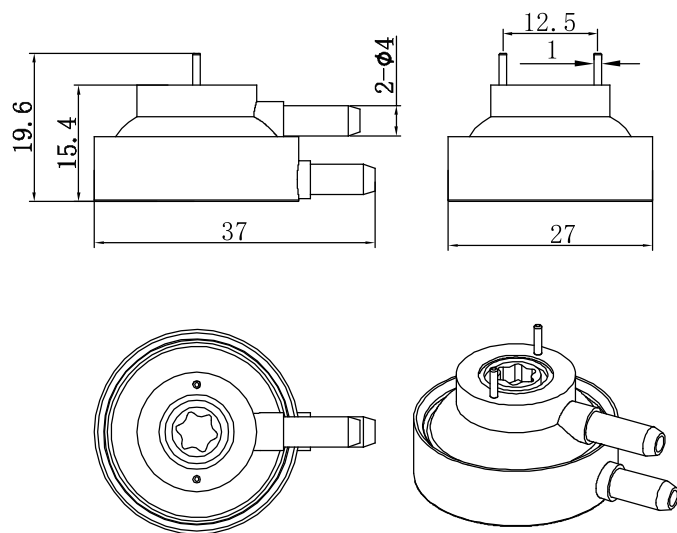
Conversion:1mbar=100Pa 1"W.C=249Pa

LEFOO



LFS-02

Miniature pressure & vacuum switch



Dimension in:mm



LFS-02 Pressure Switch is designed as an economical interface between pressure systems and Printed Circuit Boards. This switch can be used as a gauge or differential pressure switch with almost no hysteresis. It is applied to detection both positive and negative pressure. Features of this switch include a body design that allows the pressure ports to be rotated, various terminal styles including wire leads.

LFS-02 Order Ref NO

LFS-02 0 0 0 W10 R135 - V90
A B C D E F

A Connection Type:D=Pressure & Vacuum Connection ; 0=Vacuum Connection

B Contact Carrying parts:0=Brass Silver Plated ; G=Brass Golden Plated

C Connection Size:0=4mm OD tube ; B=5mm OD tube

D Wire Lead:0=Without,Wxx=Length of wire lead in inches,i.e.W10=10inch wire lead;Terminal is available on customer's request

E Inlet Rotation:0=Aligned,Rxx=Angle(xx in Degrees) i.e.R135=135°

F Pressure setting in mbar:i.e. V90=90mbar vacuum, P90=90mbar positive

Specification

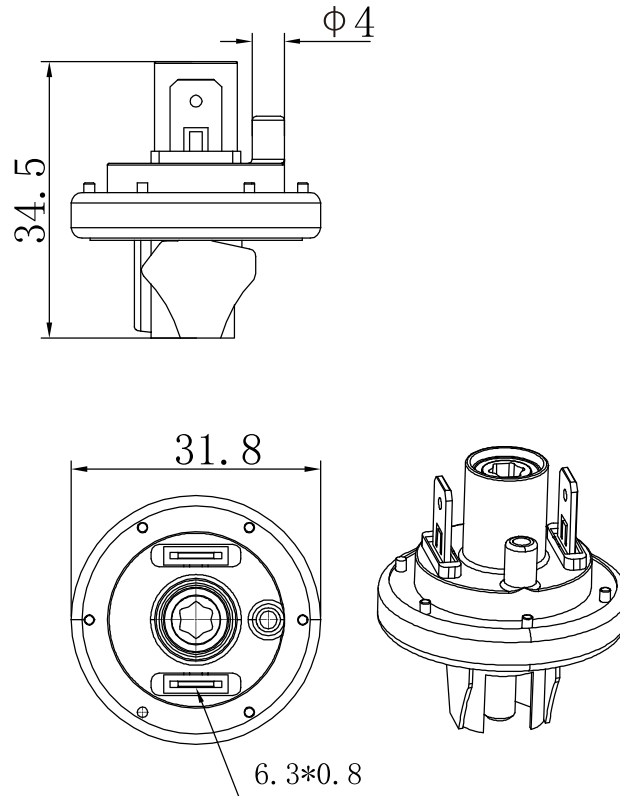
Model	LFS-02
Media	Non-hazardous gas only
Electrical Function	1 pole NO
Electrical Rating	250mA,250V~
Ambient Temperature	-10°C to +90°C
Electrical Connection	solder pins 1.0mm,12.5mm between away from each other or with different leads and terminals
Pressure Range	Pressure:5-800mbar; Vacuum:5-800mbar
Maximum Pressure	Pressure: 1000mbar; Vacuum:1000mbar
Connection	Inlet 4.0mm or 5.0mm for tube connection

Conversion:1mbar=100Pa 1"W.C=249Pa

www.lefoo.com

LFS-03

Miniature pressure &
Vacuum switch



Dimension in:mm

LFS-03 can be applied to detection positive or negative pressure. It can be used as a gauge or differential pressure switch with almost no hysteresis. If 2 switch points are required, 2 pressure switches with different calibrations should be employed. The method of fixing the tab terminals to the switch body does not allow for absolute air sealing. The switch is therefore not recommended for applications where static vacuum has to be maintained. However, special models with additional pressure spring which allow for the vacuum to be connected to the pressure inlet side are available on request.

LFS-03 Order Ref NO

LFS-03 0 0 0 W10 - V90

A B C D E

A Connection Type:D=Pressure & Vacuum Connection ; 0=Vacuum Connection

B Contact Carrying parts(Dimension in mm):0=Brass Silver Plated ; G=Brass Golden Plated

C Connection Size:0=4mm OD tube (G1/8,NPT1/8,M10×1 Male connection are optional)

D Wire Lead:0=Without,Wxx=Length of wire lead in inches,i.e.W10=10inch wire lead;Terminal is available on customer's request

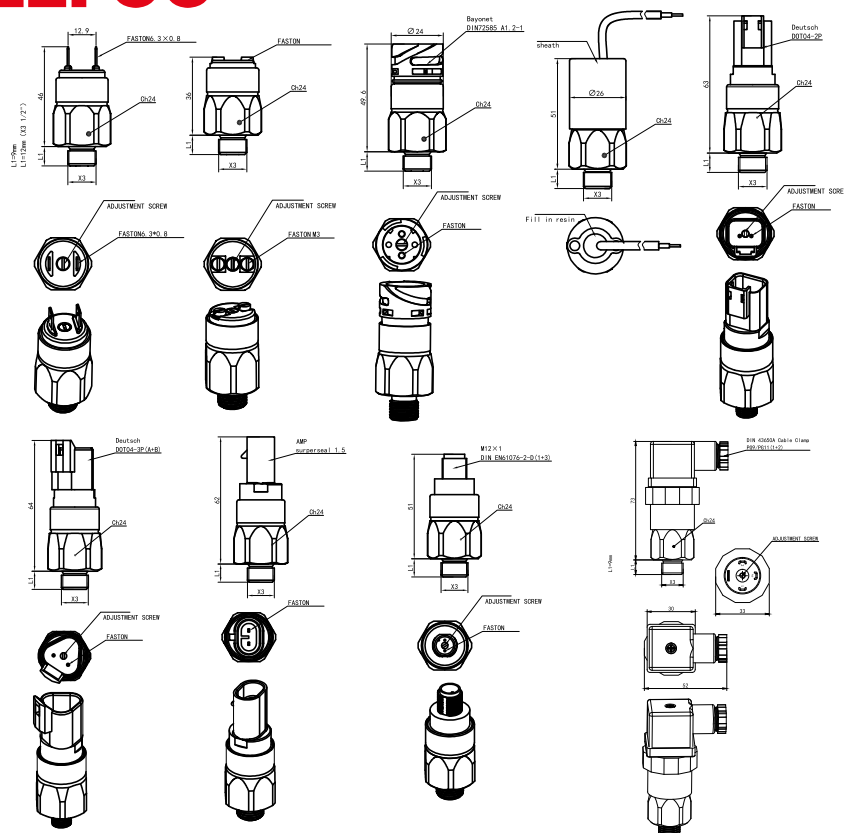
E Pressure setting in mbar :i.e. V90=90mbar vacuum, P90=90mbar positive

Specification

Model	LFS-03
Media	Non-hazardous gas only
Electrical Function	1 pole NO or 1 pole NC
Electrical Rating	250mA ,250V(Pmax:2.5bar)
Ambient Temperature	-10°C to +90°C
Termimnal	4.8mm×0.8mm copper alloy
Pressure Range	-15-800mbar
Maximum Pressure	2500mbar
Connection	Inlet 4.0mm for tube connection (Threaded inlet M10×1, NPT1/8 or G1/8 Male)

Conversion:1mbar=100Pa 1"W.C=249Pa

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LF702

Pressure switch



In the industrial and automotive fields, a certain pressure value is usually set for the equipment. When the pressure reaches this value, the system will send an electronic signal to start the mechanical equipment. Which triggers a warning (such as a leak of equipment, an alarm, etc.). This is the plunger type pressure switch. The max pressure can not be exceeded to 600bar.

LF702Order Ref NO Dimension in : mm

LF702-11111111-50bar

A B C D E F G H

Number	A Connection (X3)	B Body Material	C Diaphragm	D Electric Terminals	E Cover	F Circuitry	G Pressure range	H Tolerance	I Pressure Direction
1	G1/8 Male	Zinc plated steel	NBR	1/4 Blade	No	NO	30-100bar	±5bar	Increasing
2	NPT1/8 Male	Stainless steel	FKM	M3 Screws	Up	NC	50-150bar	±10bar	Decreasing
3	M10*1 Male		EPDM	Clip DIN72585(NO)	Side		100-200bar	±15bar	
4	UNF7/16 Male		HNBR	Resin wire leads					
5	G1/4 Male		VMQ	DOT4-2P					
6	NPT1/4 Male			DOT4-3P(A+B)					
7	G1/2 Male			AMP surperseal					
8	G1/4 Female			M12×1 DIN EN61076-2-D(1+3)					
9	M12*1.5 Female			DIN 43650A Cable Clamp(1+2)					

Specification

General	Value
Body Material	Zinc plated steel/Stainless steel
Contact	Silver cadmium alloy,gold plated is available
Max Voltage	42V / MAX100VAC
Max Current	4A
Working Temperature Range	-40°C--+10°C(Different Diaphragm.
Mechanic Life Endurance	10 ^{6 times}
Electric Life Endurance	10 ^{5 times}
Pollution Situation	Normal
Protection level	IP00(Terminal 1-2),IP67(Terminal 3-8),IP65(Terminal 9)
Upper cover	IP54(Termial 1-2)
Side cover	IP55(Termial 1-2)
Applicable Rule	EN 60730-1
Max Working Pressure	450bar
Burst Pressure	600bar
Weight	~85qr

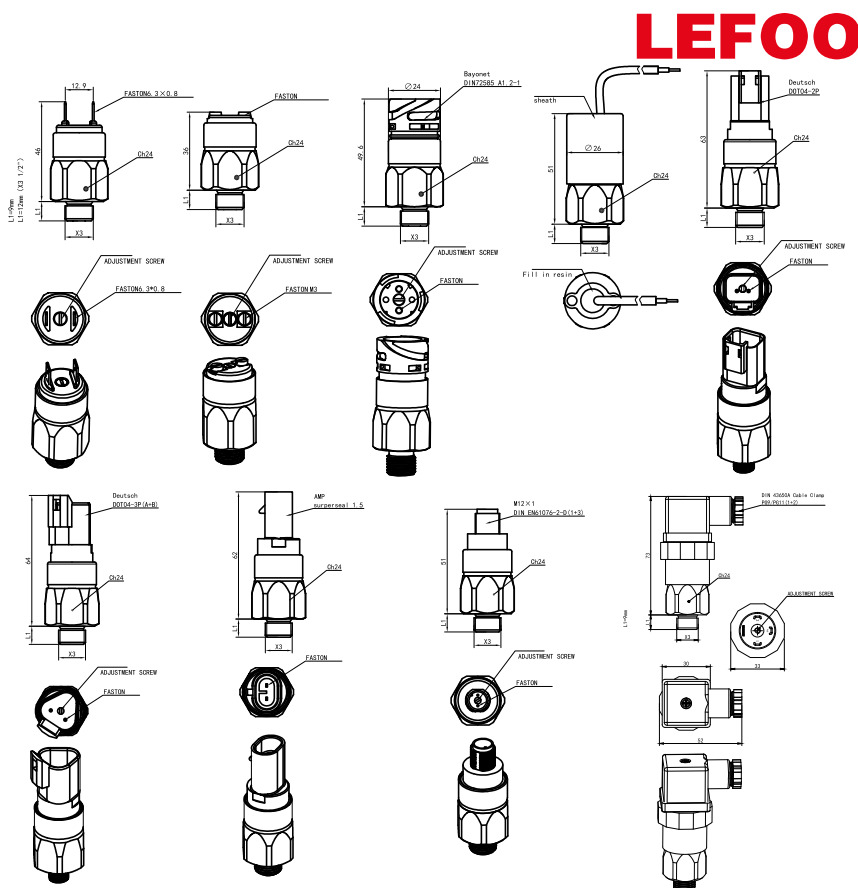
Conversion: 1kgf /cm=14.2psi 1bar=14.5psi
www.lefoo.com

LF708

Pressure switch



In the industrial and automotive fields , a certain pressure value is usually set for the equipment .When the pressure reaches this value, the system will send an electronic signal to start the mechanical equipment Which triggers a warning (such as a leak of equipment , an alarm , etc.). This is Diaphragm type pressure switch. The max pressure can not be exceeded to 300bar,SPDT.



LEFOO

LF708 Order Ref NO

Dimension in : mm

LF708 - 11111111-3 bar

A B C D E F G H

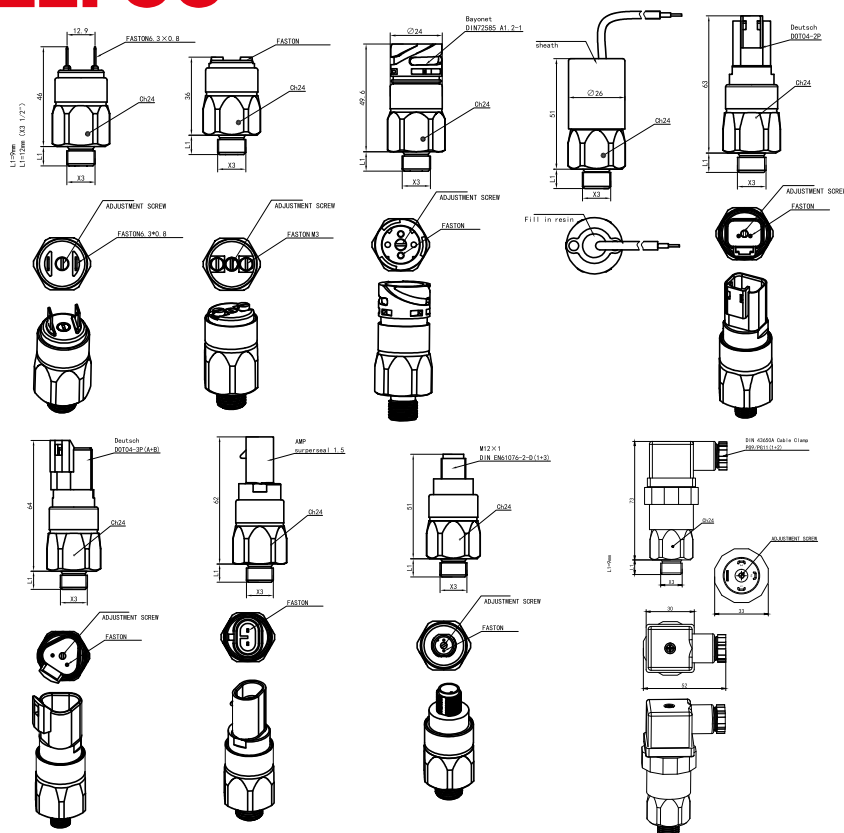
Number	A Connection (X3)	B Body Material	C Diaphragm	D Electric Terminals	E Cover	F Circuitry	G Pressure Range	H Pressure Direction
1	G1/8 Male	Zinc plated steel	NBR	1/4 Blade	No	NO	1-5bar±0.3bar	Increasing
2	NPT1/8 Male	Stainless steel	FKM	M3 Screws	Up	NC	1-10bar±0.5bar	Decreasing
3	M10*1 Male	Brass	EPDM	Clip DIN72585	Side		10-20bar±1bar	
4	UNF7/16 Male		HNBR	Resin wire leads			20-50bar±2bar(Except brass)	
5	G1/4 Male		VMQ	DOT4-2P				
6	NPT1/4 Male			DOT4-3P(A+B)				
7	G1/2 Male			AMP surperseal				
8	G1/4 Female			M12×1 DIN EN61076-2-D(1+3)				
9	M12*1.5 Female			DIN 43650A Cable Clamp(1+2)				

Specification

General	Value
Body Material	Zinc plated steel/Stainless steel/Brass
Contact	Silver cadmium alloy/gold plated is available
Max Voltage	42V / MAX100VAC
Max Current	4A
Working Temperature Range	-40°C--+100°C(Different Diaphragm)
Mechanic Life Endurance	10 ⁶ times
Electric Life Endurance	10 ⁵ times
Pollution Situation	Normal
Protection level	IP00(Terminal 1-2),IP67(Terminal 3-8),IP65(Terminal 9)
Upper cover	IP54(Termial 1-2)
Side cover	IP55(Termial 1-2)
Applicable Rule	EN 60730-1
Max Working Pressure	Zinc plated steel/Stainless steel: 160bar Brass:40bar
Burst Pressure	Zinc plated steel/Stainless steel: 300bar Brass: 80bar
Weight	~85gr

Conversion:1kgf /cm=14.2psi 1bar=14.5psi

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LF708A

Pressure switch



In the industrial and automotive fields , a certain pressure value is usually set for the equipment .When the pressure reaches this value, the system will send an electronic signal to start the mechanical equipment Which triggers a warning (such as a leak of equipment, an alarm, etc.). This is Diaphragm type pressure switch. The max pressure can not be exceeded to 600bar.

LF708A Order Ref NO Dimension in : mm

LF708A- 1 1 1 1 1 1 1 1-3bar

A B C D E F G H

Number	A Connection (X3)	B Body Material	C Diaphragm	D Electric Terminals	E Cover	F Circuitry	G Pressure Range	H Pressure Direction
1	G1/4 Male	Zinc plated steel	NBR	1/4 Blade	No	NO	0.1-1bar±0.2bar(Only NBR)	Increasing
2	NPT1/8 Male	Stainless steel	FKM	M3 Screws	Up	NC	2.5-6bar±0.3bar	Decreasing
3	M10*1 Male		EPDM	Clip DIN72585(NO)	Side		3-10bar±0.5bar	
4	UNF7/16 Male			Resin wire leads			5-20bar±1bar	
5				DOT4-2P			15-50bar±2bar	
6				DOT4-3P(A+B)				
7				AMP surseal				
8				M12×1 DIN EN61076-2-D(1+3)				
9				DIN 43650A Cable Clamp(1+2)				

Specification

General	Value
Body Material	Zinc plated steel/Stainless steel
Contact	Silver cadmium alloy,gold plated is available
Max Voltage	42V/ MAX100VAC
Max Current	4A
Working Temperature Range	-40°C-- +100°C(Different Diaphragm)
Mechanic Life Endurance	10 ⁶ times
Electric Life Endurance	10 ⁵ times
Pollution Situation	Normal
Protection level	IP00(Terminal 1-2),IP67(Terminal 3-8),IP65(Terminal 9)
Upper cover	IP54(Termial1-2)
Side cover	IP55(Termial1-2)
Applicable Rule	EN 60730-1
Max Working Pressure	450bar
Burst Pressure	600bar
Weight	~85gr

Conversion:1kgf /cm=14.2psi 1bar=14.5psi

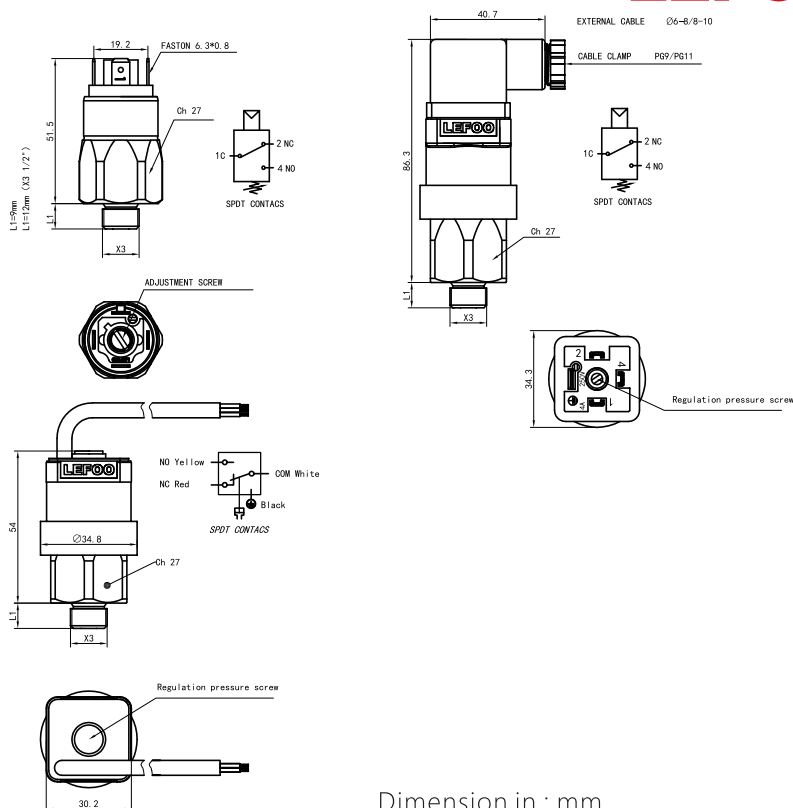
www.lefoo.com

LF727

Pressure switch



In the industrial and automotive fields, a certain pressure value is usually set for the equipment. When the pressure reaches this value, the system will send an electronic signal to start the mechanical equipment which triggers a warning (such as a leak of equipment, an alarm, etc.). This is Diaphragm type pressure switch. The max pressure can not be exceeded to 300bar, SPDT.



Dimension in : mm

LF727 Order Ref NO

LF727-111111-3bar

A B C D E F

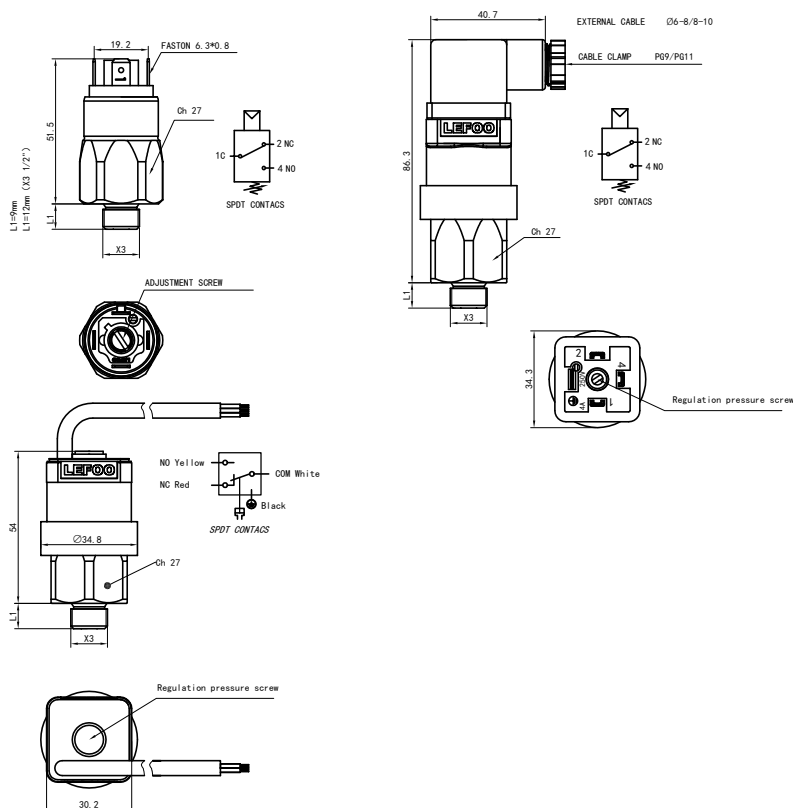
Number	A Connection (X3)	B Body Material	C Diaphragm	D Electric Terminals	E Pressure Range	Tolerance	F Pressure Direction
1	G1/8 Male	Zinc plated steel	NBR	Blade	1-5bar	±0.3bar	Increasing
2	NPT1/8 Male	Stainless steel	FKM	DIN 43650A PG9	1-10bar	±0.5bar	Decreasing
3	M10*1 Male	Brass	EPDM	DIN 43650A PG11	10-20bar	±1bar	
4	UNF7/16 Male		HNBR	Resin wire-leads	20-50bar(Except brass)	±2bar	
5	G1/4 Male		VMQ				
6	NPT1/4 Male						
7	G1/2 Male						
8	G1/4 Female						
9	M12*1.5 Female						

Specification

General	Value
Body Material	Zinc plated steel/Stainless steel/Brass
Contact	Silver cadmium alloy
Max Voltage	250VAC/42VDC
Max Current	4A
Working Temperature Range	-40°C-- +100°C(Different Diaphragm)
Mechanic Life Endurance	10 ⁶ times
Electric Life Endurance	10 ⁵ times
Pollution Situation	Normal
Repeated Accuracy	2%
IP Grade	Wire leads Ip00,Hirschmann IP65,Resined wires IP67
Applicable Rule	EN 60730-1
Max Working Pressure	Zinc plated steel/Stainless steel:150bar Brass: 40bar
Burst Pressure	Zinc plated steel/Stainless steel: 300bar Brass: 80bar
Weight	~140g

Conversion:1kgf /cm=14.2psi 1bar=14.5psi

LEFOO



Dimension in : mm

LF727A

Pressure switch



In the industrial and automotive fields, a certain pressure value is usually set for the equipment. When the pressure reaches this value, the system will send an electronic signal to start the mechanical equipment. Which triggers a warning (such as a leak of equipment, an alarm, etc.). This is Diaphragm type pressure switch. The max pressure can not be exceeded to 600bar, SPDT.

LF727A Order Ref NO

LF727A- 1 1 1 1 1 1 -3bar

A B C D E F

Number	A Connection (X3)	B Body Material	C Diaphragm	D Electric Terminals	E Pressure Range	Tolerance	F Pressure Direction
1	G1/4 Male	Zinc plated steel	NBR	Blade	0.3-1.5bar(Only NBR)	±0.2bar	Increasing
2	NPT1/8 Male	Stainless steel	FKM	DIN 43650A Pg9	3-6bar	±0.3bar	Decreasing
3	M10*1 Male		EPDM	DIN 43650A Pg11	3-10bar	±0.5bar	
4	UNF7/16 Male			Resin wire-leads	5-20bar	±1bar	
5					15-50bar	±2bar	

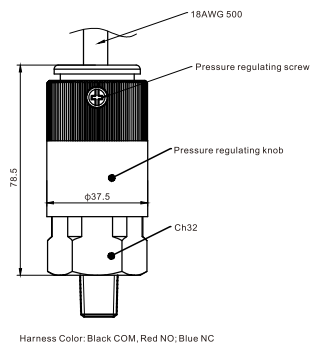
Specification

General	Value
Body Material	Zinc plated steel/Stainless steel/Brass
Contact	Silver cadmium alloy
Max Voltage	250VAC/42VDC
Max Current	4A
Working Temperature Range	-40°C--+100°C(Different Diaphragm)
Mechanic Life Endurance	10 ⁶ times
Electric Life Endurance	10 ⁵ times
Pollution Situation	Normal
Repeated Accuracy	2%
IP Grade	Wire leads Ip00,Hirschmann IP65,Resined wires IP67
Applicable Rule	EN 60730-1
Max Working Pressure	450bar
Burst Pressure	600bar
Weight	~140g

Conversion:1kgf /cm=14.2psi 1bar=14.5psi

www.lefoo.com

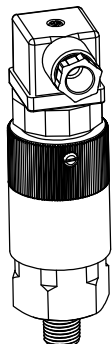
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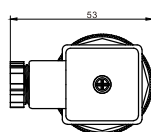
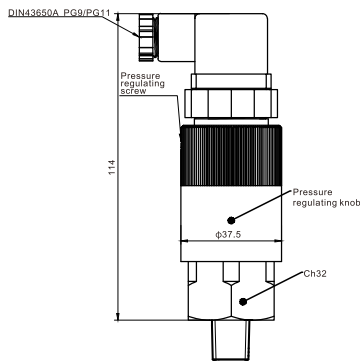
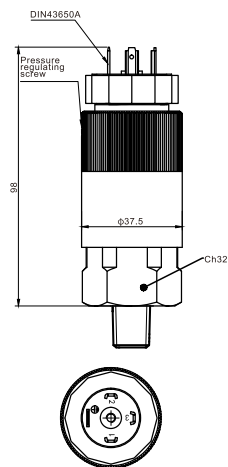
Harness Color: Black COM, Red NO; Blue NC



Terminals: 1# COM, 2# NC; 3# NO; 4# none



Terminals: 1# COM, 2# NC; 3# NO; 4# none



Dimension in : mm

LF730 Pressure switch



In the industrial and automotive fields, a certain pressure value is usually set for the equipment. When the pressure value is reached, the system will send an electronic signal to make the mechanical equipment start to work or give a signal (such as equipment leakage, alarm, etc.). This can be done with a pressure sensor called a pressure switch. This is a plunger pressure switch, the safety overpressure does not exceed 800bar, and the thread can be customized.

LF730 Order Ref NO

LF730-111111-200bar

A B C D E F

Number	Body material	Thread (X3)	Contact	Pressure range	Pressure direction	Wiring methods
1	A Stainless Steel (304)	B NPT1/4 male	C SPST-NO	D 100-300	E Rise	F DIN 43650A Hirschmann
2	brass	UNF7/16 male	SPST-NC	200-500	Decline	DIN 43650A blade only
3		G1/4 male	SPDT			blade only
4						German standard DOT4-2P
5						German standard DOT4-3P(A+B)
6						AMP superseal
7						M12×1 DIN EN61076-2-D(1+3)
8						DIN72585

Specification

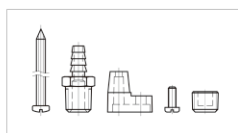
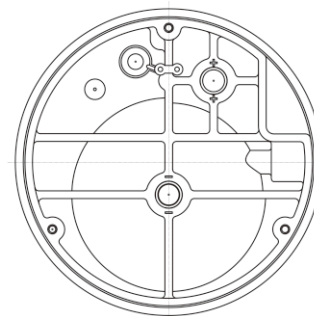
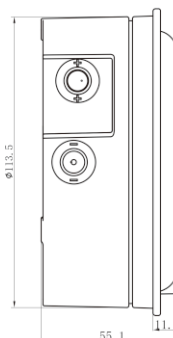
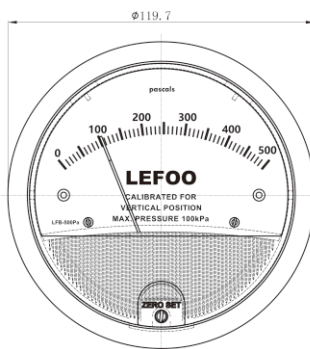
General	Value
Body	Brass/Stainless Steel
Electrical contacts	Silver cadmium, (gold plated optional)
Electrical parameters	5 (2) A 125/250VAC; 4A 30VDC (250VAC 10A optional)
Ambient temperature	-25°C~66°C
Medium temperature	-30°C~100°C
Mechanical endurance	1 million times
Electrical endurance	50,000 times
Hysteresis	10%-20% set point
External contamination	normal
Normal	DIN 43650A Hirschmann IP65; others IP67 (wire methods 3-8)
Applicable regulations	EN 60730-1
Maximum working pressure	800bar
Maximum safety pressure	1000bar
Weight	~320gr

LFB

Differential pressure gauge



LEFOO



Dimension in :mm

LFB series is widely used for measuring the fans or blowers pressure, filter resistant, wind speed, furnace gas pressure, Orifice pressure difference, bubble level and hydraulic system pressure. It is also applied to regulate the air-gas combustion ratio and automatic valve or detecting the breathing, and blood pressure in medical equipment. There are some more applications like micro-electronics, aviation and space, environmental protection project, biological engineering, intelligent building, HVAC, food and beverage and precision electronic processing

Specification :

Magnetic link drive mechanism eliminates friction caused by gear drive fundamentally

No necessity to fill with liquid

Motion of the pointer without inertia or drift

No hysteresis

Excellent anti-vibration and anti-shaking performance

Positive, negative or differential pressure can be measured

multiple ranges are optional, minimum 0 ~ 30Pa to maximum 0 ~ 10KPa

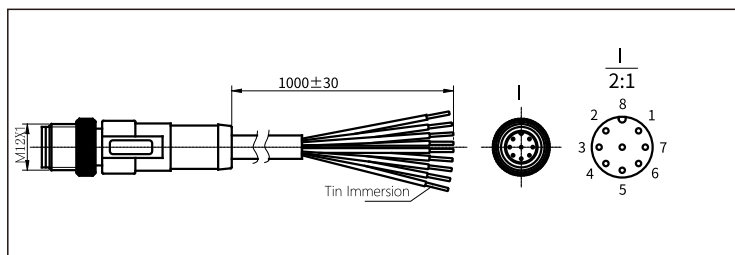
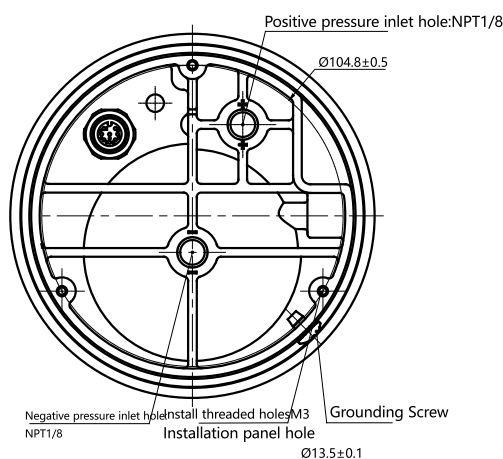
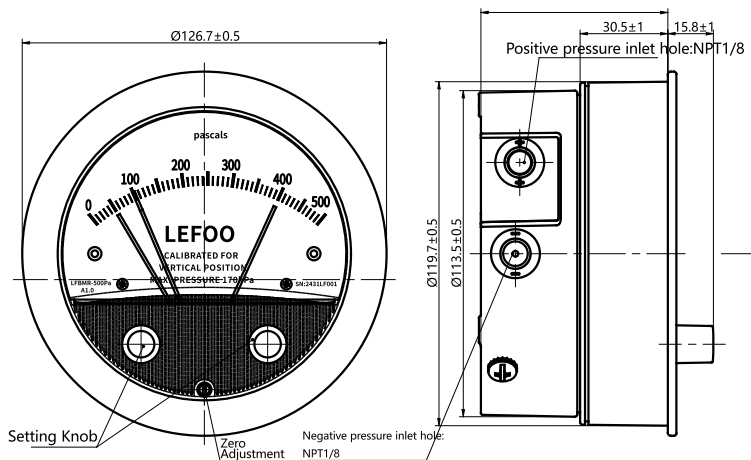
2 sets of pressure ports (side, back) + 3 mounting modes = free and flexible application

Excellent accuracy, reasonable price.

Specification

General	Value
Measuring range	0-30Pa、-30-30Pa、0-60Pa、-60-60Pa、0-125Pa、-125-125Pa、0-250Pa、-250-250Pa、0-300Pa、0-500Pa、0-750Pa、0-1kPa、0-2kPa、0-3kPa、0-4kPa、0-5kPa、0-6kPa、0-7kPa、0-8kPa、0-9kPa、0-10kPa
Accuracy	2% F.S. when full scale >150 Pa(f.s.≤150Pa, ±3Pa) Note: Temp. 21°C
Over load	around 110kPa~150kPa, the rubber plug for overpressure will be flush away
Environment temperature	-7°C~ 60°C
IP Grade	Ip67

LEFOO



Dimension in :mm

LFBMR

Mechanical differential Pressure gauge



Differential pressure gauge/switch is a product that combines the functions of a pressure measuring indicator and a differential pressure switch. Integrate high-precision and highly repeatable differential pressure switch function on the micro differential pressure gauge, adjust the pressure setting of the switch action point through the adjustment knob on the product surface, and set the pointer to indicate the action pressure. The switch function and pressure measurement indicator function do not affect each other, and even if the power supply is interrupted, it will not affect the instrument reading.

Specification

Model	LFBMR
Operation temperature	-6°C ~ +60°C
Product appearance	Cast aluminum casing, transparent PC panel
Pressure medium	Air, non flammable non corrosive gas (clean, non dry gas)
Accuracy	Under 21°C $\pm 2\%FS$ ($\leq 150Pa \pm 3Pa$)
Repeatability accuracy of switches	$\pm 1\%FS$, (Dead zone is the width of one pointer, $< 1\%FS$)
Product range	0-60Pa, 0-250Pa, etc different range (same as LFB, minimum 0-20Pa, max 40kPa)
Switch type	Each set point has a C-type relay (SPDT)
Power supply	24 VDC
Output	1A@30VDC

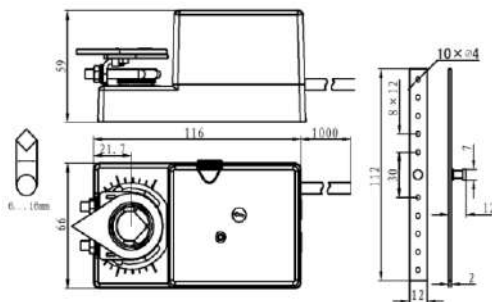
LFZ

Standard rotary Actuator

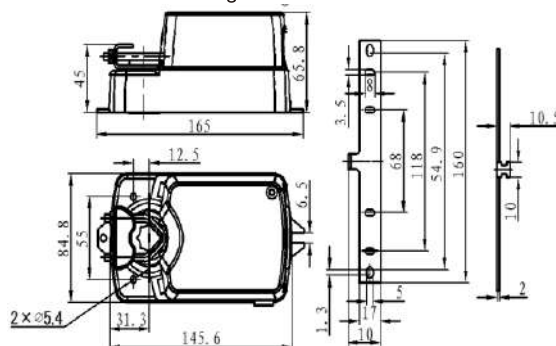


LFZSeries electric damper actuator adopts imported DC motor/brushless motor to supply power energy, And it can offer 2NM~40NM torque, it can directly works on rotary control of air system and water systems,and can realize signal control of voltage 0(2)-10V and current 0(4)-20mA and MODBUSRS485 ,also can provide mutual convertible current or voltage signal feedback ,It is easy to install and can be easily fixed on the square shaft, round shaft or other shaped damper shaft,This product has advantage of long life, low noise, and multi-functional intelligent control.The whole series of products are available with manualoperation function. The protection grade of the product is IP54, and it's stable and efficient, with full overload protection function. All products are equipped with manual limit.

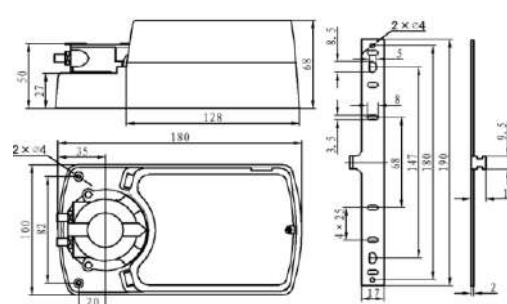
2NM



Dimension drawing: 4-6NM



Dimension drawing: 8-40NM



Dimension in : mm

Model	Output Torque	Power Supply	Running Time	Control Signal	Optional F auxiliary switch
LFZ0224/230-K/KF	2N	24V/230V	20-25S	ON-OFF control	One set of auxiliary switches
LFZ0224/230-M/MF	2N	24V/230V	20-25S	0(2)~10V/0(4)~20mA/RS485	One set of auxiliary switches
LFZ0424/230-K/KF	4N	24V/230V	25-30S	ON-OFF control	Two sets of auxiliary switches
LFZ0424/230-M/MF	4N	24V/230V	25-30S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ0624/230-K/KF	6N	24V/230V	25-30S	ON-OFF control	Two sets of auxiliary switches
LFZ0624/230-M/MF	6N	24V/230V	25-30S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ0824/230-K/KF	8N	24V/230V	30-45S	ON-OFF control	Two sets of auxiliary switches
LFZ0824/230-M/MF	8N	24V/230V	30-45S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ1624/230-K/KF	16N	24V/230V	30-45S	ON-OFF control	Two sets of auxiliary switches
LFZ1624/230-M/MF	16N	24V/230V	30-45S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ2424/230-K/KF	24N	24V/230V	120-160S	ON-OFF control	Two sets of auxiliary switches
LFZ2424/230-M/MF	24N	24V/230V	120-160S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ3224/230-K/KF	32N	24V/230V	160-200S	ON-OFF control	Two sets of auxiliary switches
LFZ3224/230-M/MF	32N	24V/230V	160-200S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches
LFZ4024/230-K/KF	40N	24V/230V	200-220S	ON-OFF control	Two sets of auxiliary switches
LFZ4024/230-M/MF	40N	24V/230V	200-220S	0(2)~10V/0(4)~20mA/RS485	Two sets of auxiliary switches

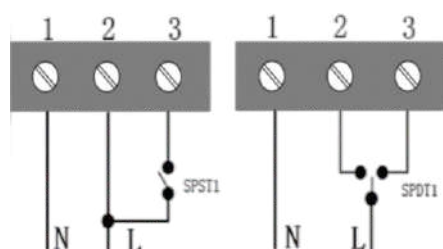
LEFOO

Specification

General	Value							
Electrical parameters	Rated voltage	AC24V 50/60Hz DC24V /AC100...240V 50/60Hz						
	Rated voltage range	AC/DC19.2...28.8V /AC85...265V						
	Power consumption	Operating state 4.5w,Standby state 0.5W						
	Wire specification	0.5mm ²						
	Terminal specification	Max2mm ²						
Function parameter	torque	2Nm	4Nm	6Nm	8Nm	16Nm	24Nm	32NM
	suitable air door size	0.3m ²	0.5m ²	0.8m ²	1.2m ²	2.5m ²	3.7m ²	5.2m ²
	Rotation direction	Can be selected by DIP switch						
	manual adjustment	Actuator can be manually adjusted after pressing the gear set disengagement button						
	Nominal/Maximum Corner	90°/95°						
	noise level	46dBA (within 1 meter)						
	location indication	Rotation angle provided by position indicator						
Work Environment	Electrical grade	III (safety low voltage)			II (double insulation)			
	Protection Grade	IP54						
	working environment temperature	-20℃～+50℃						
	Storage ambient temperature	-20℃～+50℃						
	Temperature test	95% RH, non-condensing /EN 60730-1						
Dimension Drawing	L×W×H/mm	detail see dimensional drawing						
	Minimum shaft length	>50mm						
	Weight	<1.3 Kg						

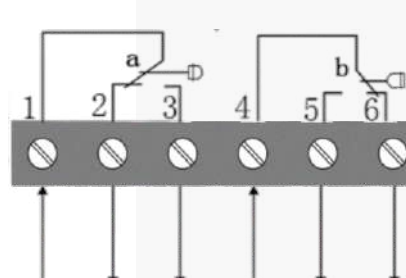
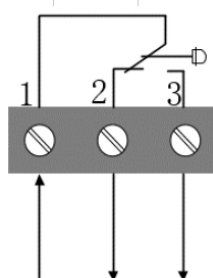
64

Wiring mode



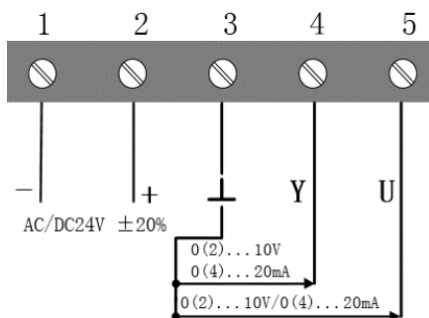
Two-point control wiring Three-point control wiring

Switch outputconnection method, working
Voltage: AC/DC 24V; AC100V...AC240V

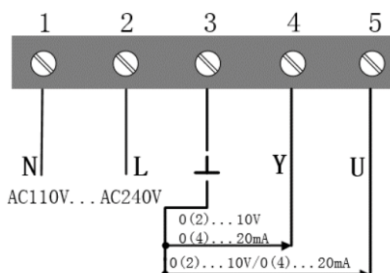


Resistive load 3A 220V
Inductive load 1.5A 220V

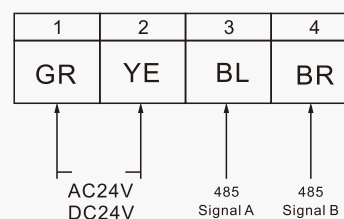
One set of auxiliary switch wiring methods Two sets of auxiliary switch wiring methods



Volt0(0)...10V input resistance $\geq$ 200K Ω
Current0(4)... 20mA input resistance=500 Ω
Analog wiring, the power supply
Voltage can be AC/DC 24V



Volt0(0)...10V input resistance $\geq$ 200K Ω
Current0(4)... 20mA input resistance=500 Ω
Analog wiring, supply voltage
AC100V...AC240V



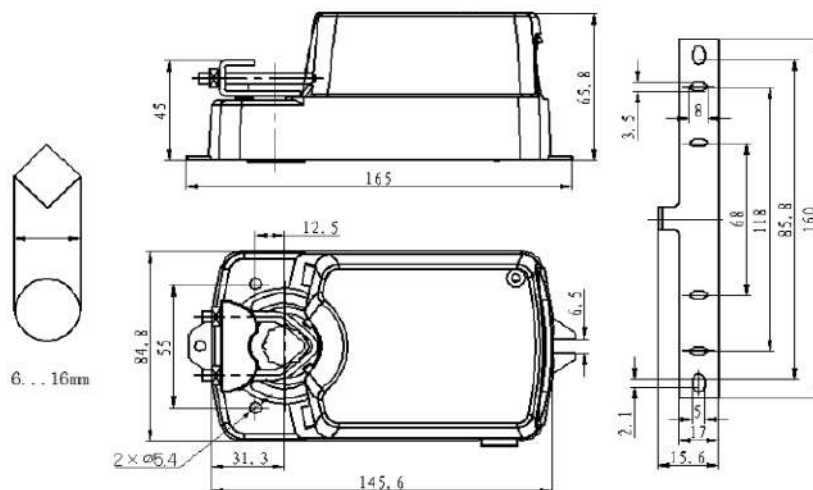
Ordering information - KF/MF is series with auxiliary switch, please provide complete model information when ordering.

LFZ-Q

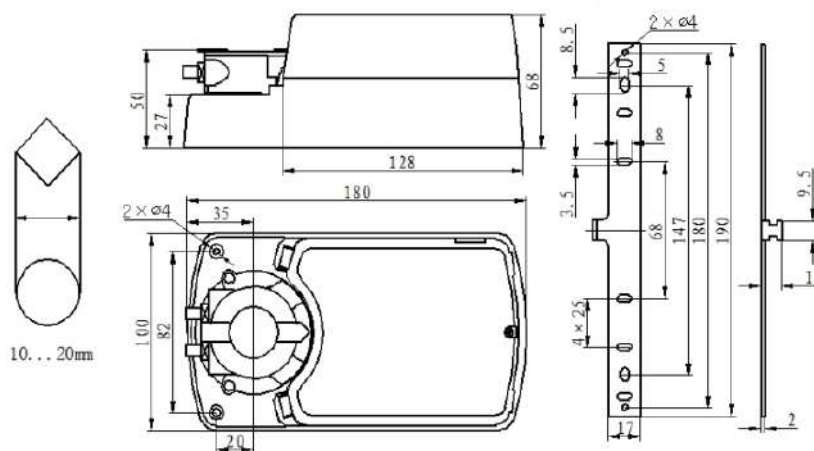
Fast running
Rotary actuators



Dimension drawing: 5NM



Dimension drawing: 8-40NM



LFZ-Q05/08/16/24/40 Series Electric Damper Actuators adopt imported DC motor/brushless motor to provide power, with torques of 5NM, 8NM, 16NM, 24NM, 40NM for choosing. The series are widely used in rail transit, ventilation system, laboratory and other fields which need fast control. They are easy to install and fix on square shaft, circular shaft or other shapes of damper connecting shafts. They have long service life, low noise and can achieve multi-function intelligent control. The whole series are with manual operation function and manual limit, IP54 protection grade, full overload protection function to ensure safe use.

Specification

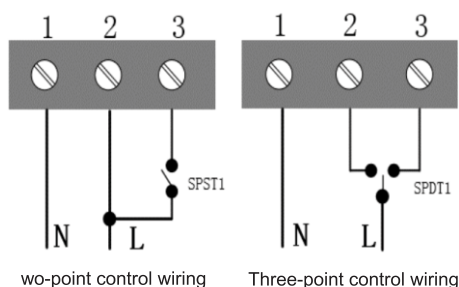
Dimension in : mm

Model	Output Torque	Power Supply	Run Time	Control Signal	F Auxiliary Switch
LFZ-Q0524/230-K/KF	5N	24V/230V	3.5S	On-off Control	Two sets of auxiliary switches
LFZ-Q0524/230-M/MF	5N	24V/230V	3.5S	0(2)~10V/0(4)~20mA	Two sets of auxiliary switches
LFZ-Q0824/230-K/KF	8N	24V/230V	8S	On-off Control	Two sets of auxiliary switches
LFZ-Q0824/230-M/MF	8N	24V/230V	8S	0(2)~10V/0(4)~20mA	Two sets of auxiliary switches
LFZ-Q1624/230-K/KF	16N	24V/230V	16S	On-off Control	Two sets of auxiliary switches
LFZ-Q1624/230-M/MF	16N	24V/230V	16S	0(2)~10V/0(4)~20mA	Two sets of auxiliary switches
LFZ-Q2424/230-K/KF	24N	24V/230V	<30S	On-off Control	Two sets of auxiliary switches
LFZ-Q2424/230-M/MF	24N	24V/230V	<30S	0(2)~10V/0(4)~20mA	Two sets of auxiliary switches
LFZ-Q4024/230-K/KF	40N	24V/230V	<30S	On-off Control	Two sets of auxiliary switches
LFZ-Q4024/230-M/MF	40N	24V/230V	<30S	0(2)~10V/0(4)~20mA	Two sets of auxiliary switches

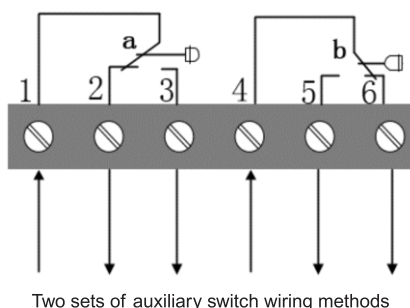
Specification

General	Value					
Electrical parameters	Rated Voltage	AC24V 50/60Hz DC24V /AC100...240V 50/60Hz				
	Rated Voltage Range	AC/DC 19.2...28.8V/AC85V...AC265V				
	Power Consumption	Running Status4.5W,Standby Status 0.5W				
	Cable Size	0.5mm²				
	Terminal Size	Max2mm²				
Function parameter	Torque	5Nm	8Nm	16Nm	40Nm	48Nm
	Suitable damper Size	0.5m²	1.2m²	2.5m²	1.2m2	4.2m²
	Rotation direction	Can be selected by DIP switch				
	manual adjustment	Actuator can be manually adjusted after pressing the gear set disengagement button				
	Nominal/Maximum Corner	90°/95°				
	noise level	46dBA (within 1 meter)				
	location indication	Rotation angle provided by position indicator				
Work Environment	Electrical Grade	III (SELV)II (Double Insulation)				
	Degree of Protection	Ip54				
	Working Temperature	-20℃～+50℃				
	Storage Temperature	-30℃～+80℃				
	Temperature Test	95%RH,No Condensation/EN 60730-1				
Dimension Drawing	L×W×H/mm	see dimensional details				
	Minimum shaft length	>50mm				
	Weight	<1.3 Kg				

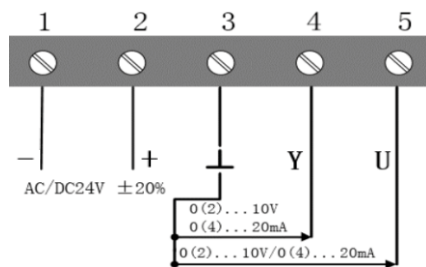
Wiring mode



Switch output connection method,
working voltage: AC/DC 24V; AC100V...AC240V

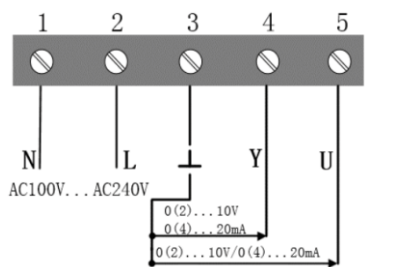


Resistive load 3A 220V
Inductive load 1.5A 220V



volt0(0)...10V input resistance≥200KΩ
current0(4)...20mA input resistance=500Ω

Analog wiring, the power supply
voltage can be AC/DC 24V



volt0(0)...10V input resistance≥200KΩ
current0(4)...20mA input resistance=500Ω

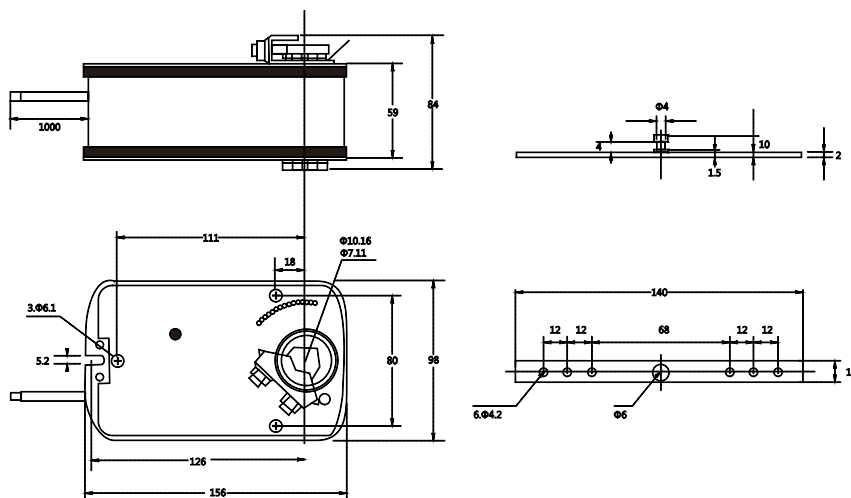
Analog wiring, supply voltage
AC100V...AC240V

Ordering information - KF/MF is series with auxiliary switch, please provide complete model information when ordering.

LFZ-T
Spring reset
Damper actuator



Dimension drawing: 5NM



LFZ-T05 Series Electric Damper Actuators adopt imported DC motor/brushless motor to provide power with torques of 5NM. It is widely used in building ventilation fields, which can realize mechanical reset when power off and electric start, providing more than 30000 times of repeated action.

Specification

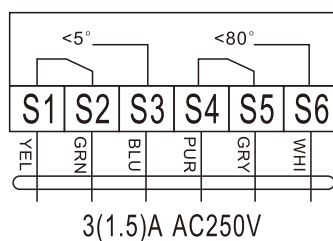
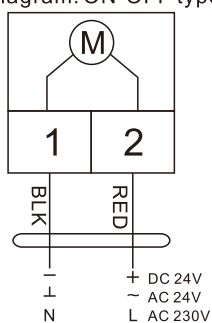
Model	Output Torque	Power Supply	Run Time	Control Signal	F Auxiliary Switch
LFZ-T0524-K	5N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T0524-KF	5N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches
LFZ-T05230-K	5N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T05230-KF	5N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches
LFZ-T1024-K	10N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T1024-KF	10N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches
LFZ-T10230-K	10N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T10230-KF	10N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches
LFZ-T1524-K	15N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T1524-KF	15N	24V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches
LFZ-T15230-K	15N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	/
LFZ-T15230-KF	15N	230V	Motor run time 70S; Spring reset time<20s	ON-OFF control	Two sets of auxiliary switches

LEFOO

Specification

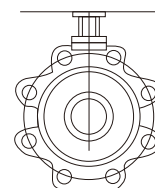
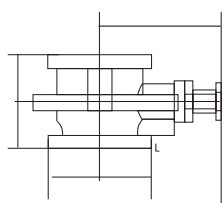
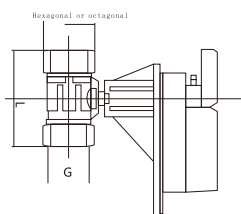
General	Value	
Electric Parameter	Rated Voltage	AC24V 50/60Hz DC24V /AC100...240V 50/60Hz
	Rated Voltage Range	AC/DC19.2...28.8V /AC85...265V
	Power Consumption	Run Status Standby Status
	Cable size	0.5mm ²
	Auxiliary switch rating	3A,AC230V
Function parameter	Torque	5NM
	Suitable damper size	Under normal wind resistance, 1NM matches 0.1 square meter (Include airtight valve matching scheme)
	Rotating Direction	Manual Adjustment Available
	Manual Operation	Available in all series
	Rotation Angle	Max 95°.Full stroke can be adjusted by mechanical limit
	Run Time	adjustable within the parameter range
	Noise Level	Motor running46db, spring reset62db
	Position indication	mechanical indication
Work Environment	Electrical Grade	III(Safelow voltage)II(Double Insulation)
	Degree of Protection	IP54
	Working Temperature	-20..+50°C/IEC 721-3-3
	Storage Temperature	-30..+80°C/IEC 721-3v-2
	Temperature Test	95%RH,No Condensation/EN 60730-1
Dimension drawing	Dimension	See Dimension drawing
	Length of Shaft	>50mm
	Size of Shaft	10-20Round Shaft10x10..16x16Round Shaft
	Weight	<1.8kg

Wiring diagram: ON-OFF type

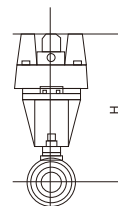


LFZ-DQ

Electrical regulating ball valve



DN65-150



DN15-50

In HVAC and water system, ball valves are used as automatic control valves. It has adjustable flow ratio, high reliability and long service life. It uses graphite to strengthen the valve body sealing ring and double EPDM valve stem sealing ring. It has integrated valve distribution butterfly inside and is not afraid of reverse pressure difference. It has the characteristic of equal percentage flow. Its high turn-off pressure is 1.4MPa. The rated working pressure is PN20. The maximum working pressure difference is 0.35Mpa. It has a manual actuator short-circuit push button. Working temperature is -5 to 121 °C. It is suitable for central air conditioning, hot and cold water supply system, steam humidification, etc.

Dimensional Drawing

Model	G	H(mm)	H1(mm)	L(mm)	Model	Flange indexing circle	L(mm)	D(mm)	H(mm)	n-d
DN 15	G1/2	184	37.5	60	DN 65	145	97	105	136	4-18
DN 20	G3/4	184	44	73	DN 80	160	108	120	140	8-18
DN 25	G1	189	47	89	DN 100	175	120	145	104	8-18
DN 32	G1-1/4	199	52.5	102.5	DN 125	200	145	175	115	8-18
DN 40	G1-1/2	208	57	113	DN 150	230	165	205	138	8-18
DN 50	G2	219	62	127.5						

Dimension in : mm

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Specification

Model		Diameter	Two-way flow	Power supply	Control signal	F auxiliary switch	Bracket	Actuator
Two-way	Three-way							
LFZ-DQ 15-V	LFZ-DQ 15-Y	DN 15	4.0	AC/DC24V/230V	switch/adjust	one set	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 4NM
LFZ-DQ 20-V	LFZ-DQ 20-Y	DN 20	4.0	AC/DC24V/230V	switch/adjust	one set	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 4NM
LFZ-DQ 25-V	LFZ-DQ 25-Y	DN 25	10.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 6NM
LFZ-DQ 32-V	LFZ-DQ 32-Y	DN 32	16.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 6NM
LFZ-DQ 40-V	LFZ-DQ 40-Y	DN 40	25.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 6NM
LFZ-DQ 50-V	LFZ-DQ 50-Y	DN 50	40.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing / short ball valve bracket with packing	Actuator with 6NM
LFZ-DQ 65-V	/	DN 65	63.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing	Actuator with 16NM
LFZ-DQ 80-V	/	DN 80	100.0	AC/DC24V/230V	switch/adjust	two sets	High platform ball valve bracket with packing	Actuator with 16NM
LFZ-DQ 100-V	/	DN 100	160.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	Actuator with 24NM
LFZ-DQ 125-V	/	DN 125	250.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	Actuator with 24NM
LFZ-DQ 150-V	/	DN150	400.0	AC/DC24V/230V	switch/adjust	two sets	Ball valve bracket with packaging	Actuator with 32NM

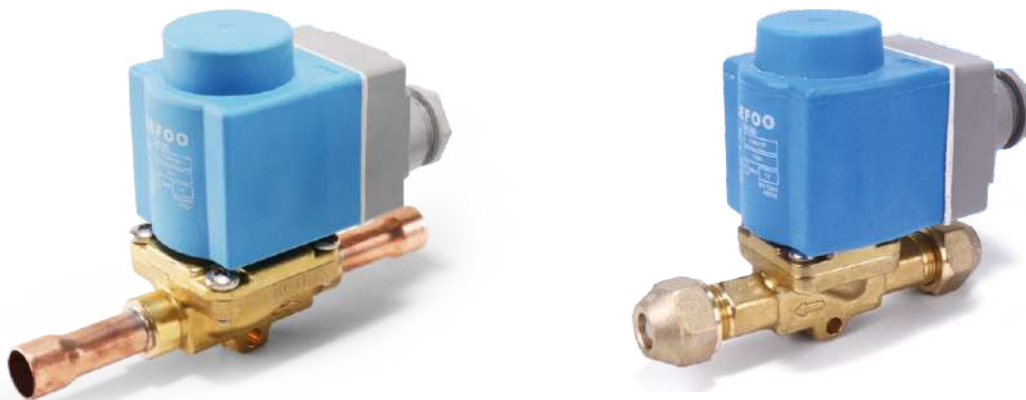
Technical Parameter

General	Value	General	Value
Diameter range	DN15-DN150	Rotation angle	0-90°
Connection mode	DN15-DN50(female thread connection) DN65-DN150(flanged connection)	Installation position	vertical installation
Medium	Hot and cold water, unsaturated steam, 50% ethanol water, etc.	Flow characteristics	Equal percentage
Medium temperature range	-5°C-120°C	Bearing pressure of valve body	1.6Mpaflang2.0Mpa screw thread
Adjustable ratio of valve	>100	Material of valve body	Forged brass (thread) nodular cast iron (flange)
Leakage rat	no leakage from the factory	Valve core material	304 stainless steel
Max. allowable pressure difference	0.35Mpa	Valve stem material	304 stainless steel
Max. cut off pressure difference	1.4Mpa	Sealing ring	EPDM

LEFOO

LFSV-D

Solenoid valve



Product Description

• LFSV-D series solenoid valves are divided into direct and servo-operated, and are mainly used for on-off control of refrigerants in refrigeration systems, air conditioners and heat pumps.

Features

- The joints of the valve body have good sealing performance. The valve body and the coil can be supplied as a whole or separately. The valve body is universal
- Various coil voltages are available, the coil power consumption is low, the reliability is high, the overall sealing design is adopted, and the protection level reaches Ip65
- The maximum working pressure difference of the solenoid valve is large, it can work stably under the condition of voltage fluctuation, and has a long service life
- The solenoid valve is a detachable structure, which is extremely convenient for installation and maintenance

Naming for Valve

The whole series is named by the sequence LFSV-D-xyz. x is Pipe Size(Inch), y is Connection, z is Size of Valve(Big or Small)

x: 2 (1/4"), 3 (3/8"), 4 (1/2"), 5 (5/8"), 6 (3/4"), 7 (7/8")

y: L=Thread Connection SAE H=Welding Connection ODF

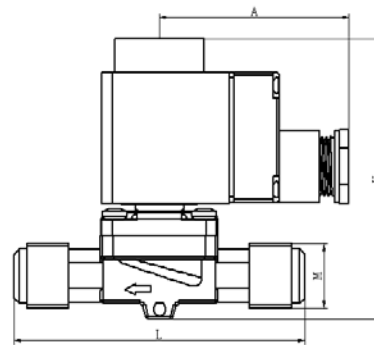
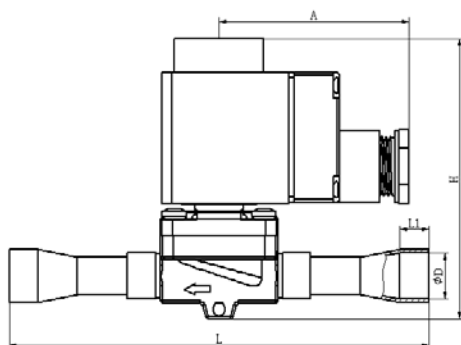
z: B=Big Valve S=Small Valve No=Decided by supplier.

Technical Parameters

Model	LFSV-D
Refrigerants	R22,R134a,R407C,R404A,R410A,R507C and other refrigerants
Medium temperature	-30°C~+105°C
Ambient Temperature and Relative Humidity	-40°C~+65°C, ≤95%RH
Coil standard voltage	AC220V, AC110V, DC24V, DC12V (contact LEFOO for other customized voltages)
Allowable Voltage Fluctuation of Coil	+10%~ -15%
Wiring	Standard DIN junction box or direct lead
Installation position	Suction- exhaust port and liquid pipe port

Valve body Technical data

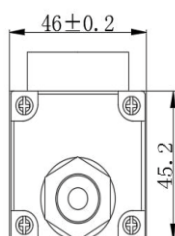
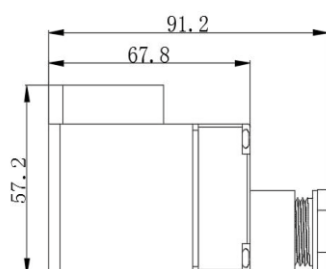
Model	Connection	Pipe size (inch)	Kv (m ³ /h)	Max.working pressure (MPa)	Dimension (mm)					
					ΦD	M (UNF)	L1	L	A	H
LFSV-D-2L	SAE	1/4	0.15	4.5	_____	7/16-20	_____	75	75	87
LFSV-D-2H	ODF				6.5	_____	7	116	75	87
LFSV-D-3LS	SAE	3/8	0.26		_____	5/8-18	_____	75	75	87
LFSV-D-3HS	ODF				10.1	_____	8	117	75	87
LFSV-D-3LB	SAE		1.0		_____	5/8-18	_____	82	75	92
LFSV-D-3HB	ODF				10.1	_____	8	122	75	92
LFSV-D-4LS	SAE	1/2			_____	3/4-16	_____	88	75	92
LFSV-D-4HS	ODF					12.8	_____	10	127	75
LFSV-D-4LB	SAE		2.2		_____	3/4-16	_____	103	75	95
LFSV-D-4HB	ODF				12.8	_____	10	127	75	95
LFSV-D-5LS	SAE	5/8			_____	7/8-14	_____	110	75	95
LFSV-D-5HS	ODF					16.1	_____	12	160	75
LFSV-D-5LB	SAE		3.3		_____	7/8-14	_____	131	75	105
LFSV-D-5HB	ODF				16.1	_____	12	176	75	105
LFSV-D-6L	SAE	3/4	2.6		_____	1-1/16-14	_____	104	75	105
LFSV-D-6H	ODF				19.2	_____	16	158	75	105
LFSV-D-7HS	ODF	7/8	3.3		22.3	_____	17	176	75	105
LFSV-D-7HB	ODF		6.0		22.3	_____	17	191	75	110



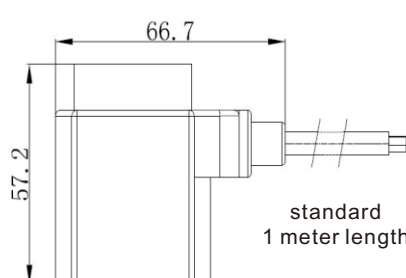
Coils Technical Data

Model	Voltage (V)	Fregency (HZ)	Power consumption (W)	insulation grade	Voltage fluctuation	Protection GradeGrade	Coil type
D-XQ01	DC24	-	10/9W	F	+10%~-15%	IP65	DIN junction box
D-XQ02	AC110	50/60					
D-XQ03	AC220						
D-XQ04	DC24	-					Direct lead (standard 1meter length)
D-XQ05	AC110	50/60					
D-XQ06	AC220						

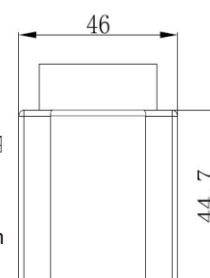
Coil dimension:



DIN junction box



Direct lead



LEFOO

LFSV-K

Solenoid valve



Product Description

LFSV-Kseries solenoid valves are divided into direct and servo-operated, and are mainly used for on-off control of refrigerants in refrigeration systems, air conditioners and heat pumps.

Features

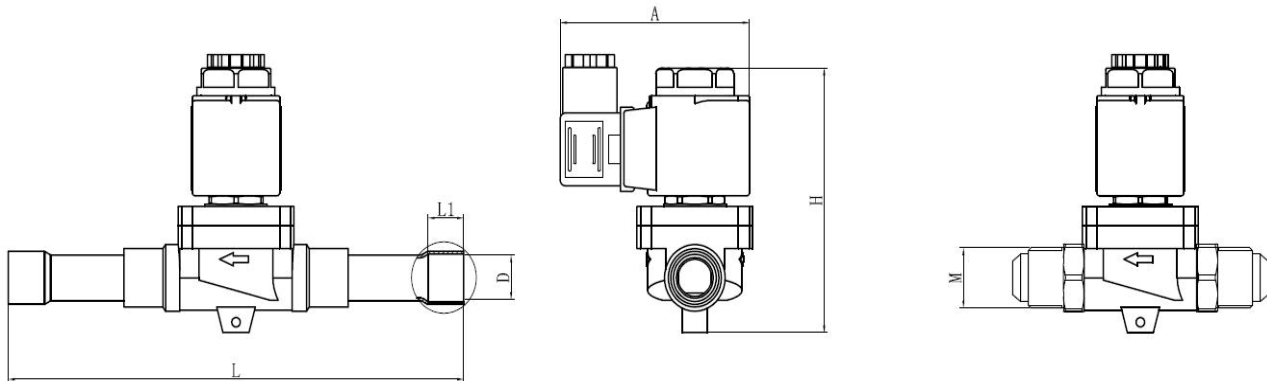
- The joints of the valve body have good sealing performance. The valve body and the coil can be supplied as a whole or separately. The valve body is universal
- Various coil voltages are available, the coil power consumption is low, the reliability is high, the overall sealing design is adopted, and the protection level reaches IP65
- The maximum working pressure difference of the solenoid valve is large, it can work stably under the condition of voltage fluctuation, and has a long service life
- The solenoid valve is a detachable structure, which is extremely convenient for installation and maintenance

Technical Parameters

Model	LFSV-K
Refrigerants	R22,R134a,R407C,R404A,R410A,R507C and other refrigerants
Medium temperature	-30°C~+105°C
Environment temperature and humidity	-40°C~+65°C, ≤95%RH
Coil standard voltage	AC220V, AC110V, DC24V, DC12V (contact LEFOO for other customized voltages)
Allowable Voltage Fluctuation for Solenoid	+10%~ -15%
Wiring	Standard DIN junction box
Installation position	Suction- exhaust port and liquid pipe port

Valve body Technical data

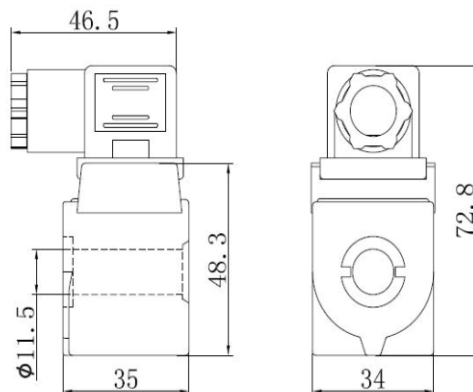
structure	Model	Connection type	Pipe size (inch)	Kv (m³/h)	Max.working pressure (MPa)	Dimension (mm)						
						ΦD	M (UNF)	L1	L	A	H	
Direct Operated	LFSV-K-2L	SAE	1/4	0.2	4.5	—	7/16 -20	—	58	70	65	
	LFSV-K-2H	ODF				6.5	—	7	90	70	65	
	LFSV-K-3LS	SAE	3/8	0.27		—	5/8 -18	—	64	70	65	
	LFSV-K-3HS	ODF				10.1	—	8	104	70	65	
Diaphragm twice open	LFSV-K-3LB	SAE		3/8		0.8	—	5/8 -18	—	87	70	72
	LFSV-K-3HB	ODF					10.1	—	8	108	70	72
	LFSV-K-4L	SAE	1/2	—			3/4 -16	—	89	70	72	
	LFSV-K-4H	ODF		12.8		—	10	114	70	72		
	LFSV-K-5L	SAE	5/8	2.6		—	7/8 -14	—	104	70	75	
	LFSV-K-5H	ODF				16.1	—	14	152	70	75	
	LFSV-K-6L	SAE	3/4			—	1-1/16-14	—	104	70	75	
	LFSV-K-6H	ODF		19.2		—	16	158	70	75		
	LFSV-K-7H	ODF	7/8	5.7	22.3	—	17	180	70	88		



Coils Technical Data

Model	Voltage (V)	Frequency (HZ)	Power consumption(W)	insulation grade	Voltage fluctuation	Protection GradeGrade	Coil type
K-XQ01	DC24	-	10/9W	F	+10%~-15%	IP65	DIN junction box
K-XQ02	AC110	50/60					
K-XQ03	AC220						

Coil dimension:



DIN junction box

LEFOO

LFFDF

Solenoid valve



Product Description

LFFDF series solenoid valves are divided into direct and servo-operated, and are mainly used for on-off control of refrigerants in refrigeration systems, air conditioners and heat pumps.

Features

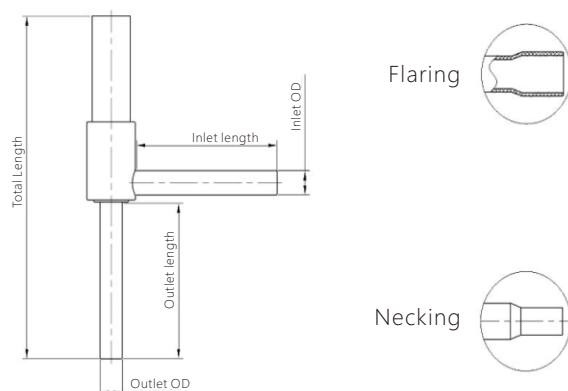
- The valve body adopts advanced welding technology and imported materials, which ensures that the valve body has almost no internal and external leakage
- Various coil voltages are available, with low coil power consumption, high reliability, and good opening performance
- The maximum working pressure difference of the solenoid valve is large, it can work stably under the condition of voltage fluctuation, and has a long service life
- The solenoid valve is small in size and goes out directly, which is very suitable for ice machines, ice cream machines, etc.

Technical Parameters

Refrigerants	R22, R134a, R407C, R404A, R410A, and other refrigerants, clear water
Max working pressure	Medium R410A: 4.2MPa, medium R407C: 3.3MPa, medium R22: 3MPa, medium water: 1MPa
Max opening differential pressure	3.4MPa
Medium temperature	Medium refrigerant: -30°C ~ +120°C, medium water: -1°C ~ +60°C
Environment temperature and humidity	-40°C ~ +65°C, ≤95%RH
Coil standard voltage	AC220V, AC110V, AC24V, DC24V
Action mode	Power on and open
Coil temperature rise	75K
Lifespan	More than 200K cycles
Installation position	The suction-exhaust ports, the liquid pipe port, and the coil, toward upward. The valve body is vertical (verticality is within ±15° deviation)

Valve body Technical data

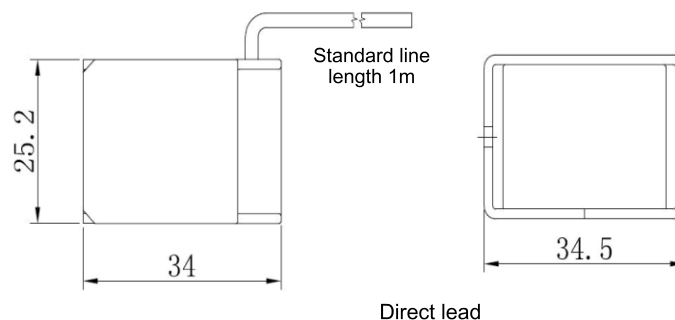
Part No.	Code	Type of Connection	Inlet length (mm)	Outlet length (mm)	Total length (mm)	Inlet OD (mm)	Outlet OD (mm)	DN (mm)	Leakage rate @2.1MPa (ml/min)	FlowKV (m³/h)			
LFFDF2A	-001	φ6.35*0.8*62inlet outlet Flaring	62	60	95	63.5	8	2	<30	0.1			
	-05	φ6.35*0.8*47	47	45	80	6.35	6.35						
	-05A	φ6.35*0.8*47outlet Flaring	47	45	80	6.35	8						
	-06	φ6.35*0.8*62inlet Flaring,Outlet Necking	62	60	95	8	4.6						
	-07	φ6.35*0.8*62Outlet Necking	62	60	95	6.35	4.6						
LFFDF3A	-001	φ6.35*0.8*46	48	46	88	6.35	6.35	3.1		<30	0.29		
	-001A	φ6.35*0.8*46outlet Flaring	48	46	88	6.35	8						
LFFDF4A	-001	φ6.35*0.8*46	48	46	88	6.35	6.35	4			<30	0.35	
	-001A	φ6.3*0.85*46outlet Flaring	48	46	88	6.35	8						
LFFDF6A	-001	φ8*0.8*58	60	58	103	8	8	5.8	<50			0.65	
	-02	φ8*0.8*40	47	47	92	8	8						
LFFDF7A	-001	φ8*0.8*58	60	58	103	8	8	7				<50	0.8
	-02	φ8*0.8*40	47	47	92	8	8						



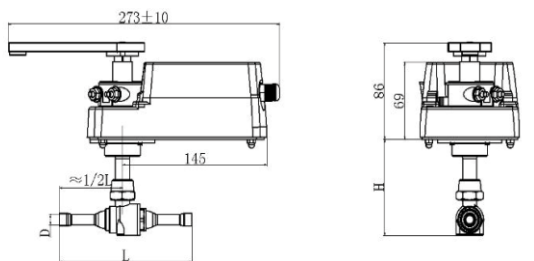
Coils Technical Data

Model	Voltage(V)	Frequency (Hz)	Power (W)	insulation grade	Voltage fluctuation	Coil type	Standard line length
FDF-XQ01	DC24	50/60	4.5/5W	B	+10%~-15%	Direct lead	1m
FDF-XQ02	AC24						
FDF-XQ03	AC110						
FDF-XQ04	AC220						

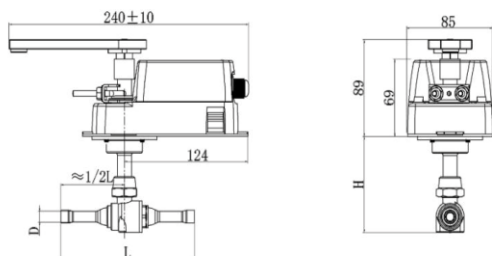
Coil dimension:



LEFOO



Ball valve 24N and 40N



Ball valve 6N

Dimension in : mm

Specifications

Ball Valve			Actuator						Connector
Model No.	Tube Size in ODF	Kv m3/h	LFZ-0624-K/M		LFZ-2424-K/M		LFZ-4024-K/M		Model No.
			Torque:6N·m		Torque:24N·m		Torque:40N·m		
			Run time:25~30S		Run time:120~160S		Run time:200~220S		
	D		L(mm)	H(mm)	L(mm)	H(mm)	L(mm)	H(mm)	
LFBV-6-2	1/4	0.8	134	86	134	86			MBVC1
LFBV-10-2	3/8	3.8	134	86	134	86			
LFBV-12-2	1/2	5.6	156	86	156	86			
LFBV-16-2	5/8	10.1	156	86	156	86			
LFBV-19-2	3/4	20.4	166	94	166	94			MBVC2
LFBV-22-2	7/8	28.2			184	94			
LFBV-28-2	1-1/8	52			204	121	204	121	MBVC3
LFBV-35-2	1-3/8	80.9			244	131	244	131	
LFBV-42-2	1-5/8	196			256	149	256	149	MBVC4
LFBV-54-2	2-1/8	248					303	167	
LFBV-67-2	2-5/8	252					324	188	MBVC5
LFBV-79-2	3-1/8	279					371	221	MBVC6

Note:

Rcommand

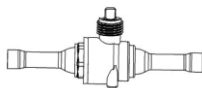
Optional

Not match

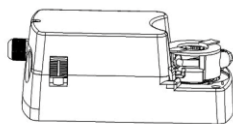
Component Description--MBVC1: Indicates the first connection component of the electric ball valve. There are 6 connection components in total according to the combination of the air valve and the size of the ball valve.

Air valve description - K: switch type, 24V power supply is required; M: analog type, in addition to 24V power supply, 0-10V/4-20mA control signal is required

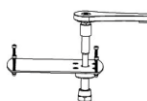
Structure



Ball Valve



Actuator



Connector

Specification

General	Value
Suitable medium	HCFC, HFC refrigerants and related oils, water, CO2
Maxi working pressure	30bar
Burst pressure	150bar
Operating temperature range	Medium:-40°C~+120°C Driver:-20°C~+50°C
IP Grade	Ip54
Power	Power:24VDC/230VAC,Controls:0(2)~10VDC/4~20mA
Rated/max rotation angle	90°/95°
Drive torque	6/24/40N·m

LFMBV

Electric ball valve



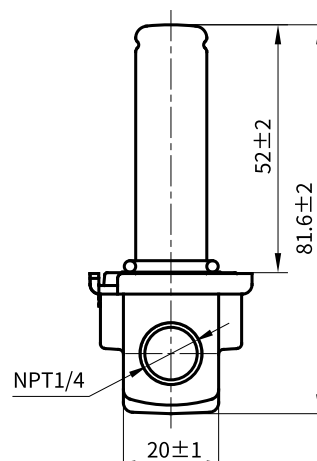
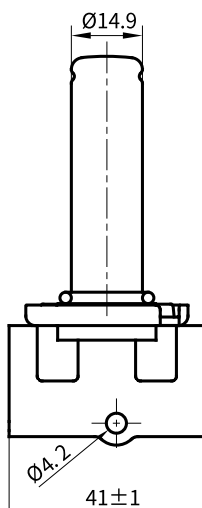
LFMBV is used for automatic on/off control of pipeline medium in refrigeration systems. The rotation angle of the driver is changed through external input, and the driver controls the rotation angle of the ball valve stem through the connection structure, thereby forming a flow control of the pipeline medium.

Features

- Ball valve 100% leakage test to ensure no internal or external leakage.
- Ball valve with high pressure resistance to ensure safety.
- The connection assembly has high integrity and can be borrowed from each other to save costs.
- The driver has high control accuracy, stability and low consumption.

LFSV-M

Solenoid valve

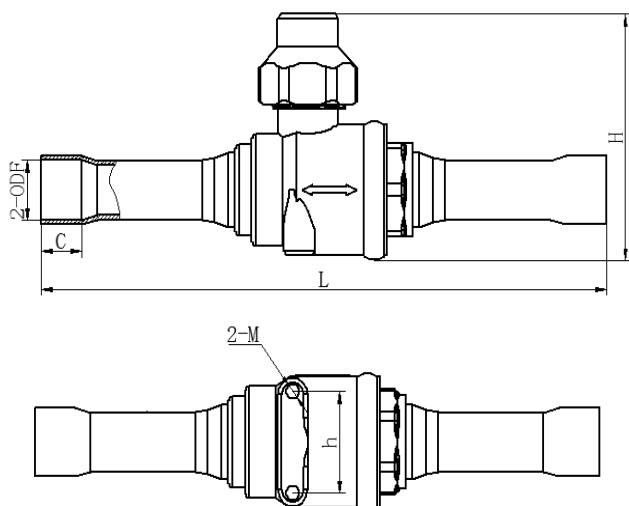


Dimension in : mm

Specification

General	Value
Nominal Diameter	DN3
Max working pressure	3.5MPa
Applicable Medium	Water, air, neutral medium
alve opening pressure difference	0~2MPa(≥85% Rated Voltage)
Applicable medium temperature	-10~90°C
Applicable ambient temperature	-12~55°C
Storage temperature	-40~120°C
Insulation level	F level
IP protection grade	IP66(Corresponding grade coils need to be selected, and coil components should be purchased separately)
Leakage inside the valve port	no leakage

LEFOO



LFBV

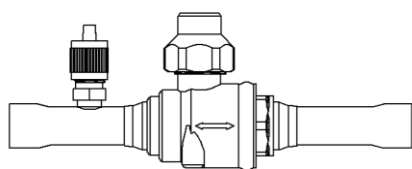
Ball valve



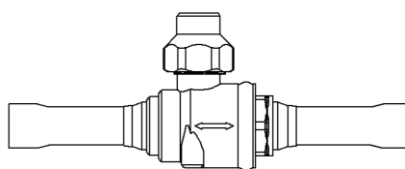
Model		Welding ODF(in)	Dimensions(mm)						Kv value m ³ /h
With charge valve	Without charge valve		L	H	C	h	M thread	OD	
LFBV-6-1	LFBV-6-2	1/4	134	51	8	22	M4	13	0.8
LFBV-10-1	LFBV-10-2	3/8	134	51	8	22	M4	13	3.8
LFBV-12-1	LFBV-12-2	1/2	156	51	11.5	22	M4	13	5.6
LFBV-16-1	LFBV-16-2	5/8	156	51	13	22	M4	13	10.1
LFBV-19-1	LFBV-19-2	3/4	166	60	16	29.7	M4	19	20.4
LFBV-22-1	LFBV-22-2	7/8	184	60	20	29.7	M4	19	28.2
LFBV-28-1	LFBV-28-2	1-1/8	204	79	23	38	M4	24.5	52
LFBV-35-1	LFBV-35-2	1-3/8	244	89	25.5	48	M6	30	80.9
LFBV-42-1	LFBV-42-2	1-5/8	256	110	28	55	M6	36.5	196
LFBV-54-1	LFBV-54-2	2-1/8	303	128	35	60	M6	50	248
LFBV-67-1	LFBV-67-2	2-5/8	324	147	36	92	M6	60.5	252
LFBV-79-1	LFBV-79-2	3-1/8	371	179	42	112	M6	73	279

Note:-1 means with charging valve,-2 means without charging valve

Basic Classification



With charging valve



Without charging valve

Technical Parameters

General	Value
Applicable refrigerant	Commonly used HCFC, HFC refrigerants and related oils
Max working pressure	4.5MPa
Max proof pressure	6.5MPa
Working temperature range	-40°C+120°C
Installation position	Liquid pipe, suction and exhaust ports, hot gas pipeline

LFBV is a manually operated shut-off valve, suitable for liquid, suction and hot gas pipelines of commercial air-conditioning, refrigeration and other equipment. By operating the valve stem, it can open and cut off the internal circulation path. It can be used as a maintenance valve for vacuuming and adding refrigerant during maintenance.

Product features:

- Straight through type, full bore design for minimum pressure drop and low pressure loss.
- From fully open to fully closed, only 1/4 turn is needed, easy operation.
- The valve body and valve seat adopt a welded structure, no external leakage, high reliability.
- Chromium plated ball and high-performance sealing ring can minimize internal leakage rate, 100% leakage testing.
- Bi-directional flow, explosion-proof valve stem design, charging valve is available.
- The valve body is equipped with bracket mounting holes for easy installation.

LFSG

Sight glass



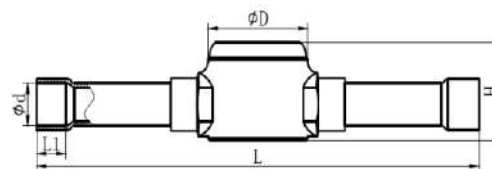
The sight glass is used on the liquid pipeline of the refrigeration and air-conditioning unit. It is installed behind the dryer to detect the flow of the refrigerant, the water content in the refrigerant and the flow of the lubricating oil in the oil return line of the oil separator. It is equipped with a wetness indicator, and the water content is displayed intuitively by color.

Product features:

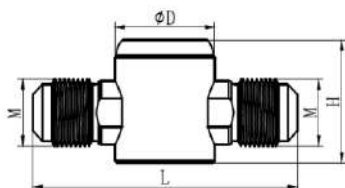
- High-precision color-changing indicator and wide-angle clear glass cover ensure accurate identification.
- Brass welding, strong and corrosion-resistant, explosion-proof press fit to ensure safety.
- The sealing parts are made of high-performance PTFE, and 100% leakage test is conducted to ensure no leakage.
- Design of circular indicating paper, cancellation of adapter, low pressure loss.
- The connection has optional screw and weld, and is compatible with HCFC, HFC and corresponding lubricating oil.

Technical Parameters

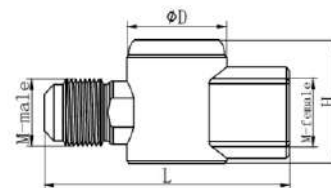
General	Value
Applicable refrigerant	Commonly used refrigerants such as HCFC and HFC.
Max. working pressure	4.5MPa
Max. proof pressure	6.8MPa
Ambient temperature range	-50°C ~ +80°C
Applicable Medium Temperature	-40°C ~ +80°C



ODFXODF



SAE X SAE



Male X Female

Model naming LFSG-a-b a stands for pipe size, b stands for pipe form.

a can be 4(1/4"),6(3/8"),8(1/2"),10(5/8"),12(3/4"),14(7/8"),18(1 -1/8").

b can be no=ODF ODF 1=SAE SAE 2=Male Femal

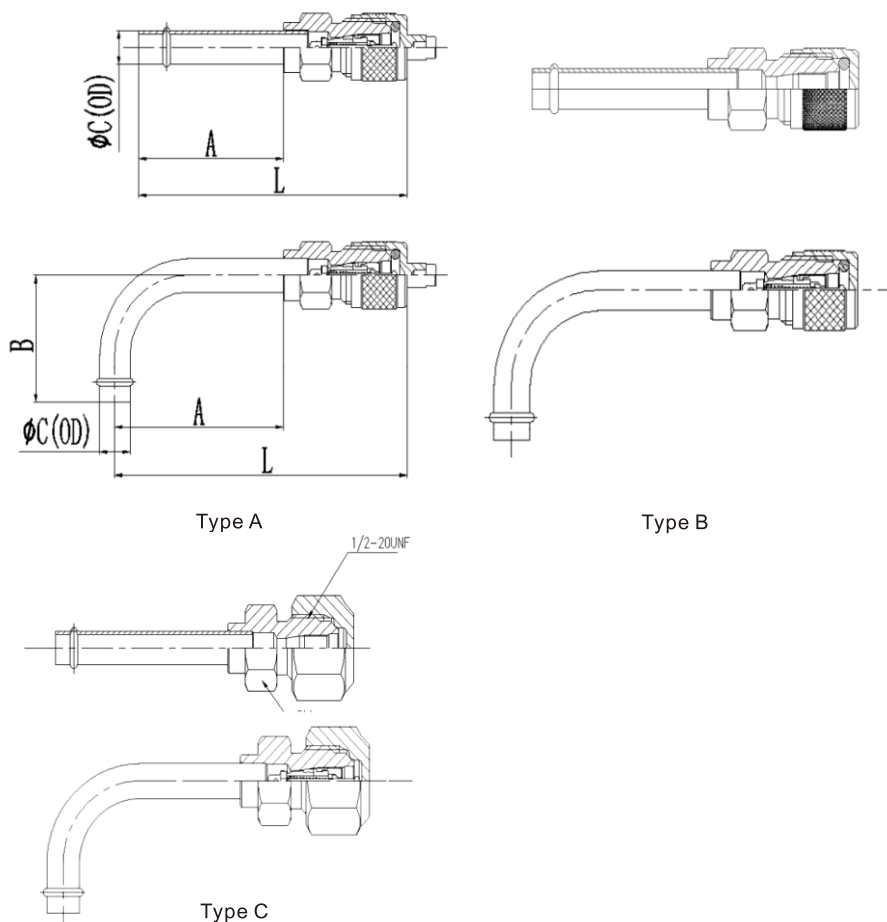
Model	Pipe size	L	L1	H	D	d	M	Male	Female
LFSG-4	1/4"	100	7	23	26.5	6.5	—		
LFSG-4-1		64	—	23	26.5	—	7/16-20UNF		
LFSG-4-2		59	—	24.5	26.5	—			
LFSG-6	3/8"	118	8	23	26.5	10.1	—		
LFSG-6-1		70	—	23	26.5	—	5/8-18UNF		
LFSG-6-2		65	—	29	26.5	—			
LFSG-8	1/2"	144	10	28	26.5	12.8	—		
LFSG-8-1		78	—	28	26.5	—	3/4-16UNF		
LFSG-8-2		70	—	31.5	26.5	—			
LFSG-10	5/8"	150	14	31	26.5	16.1	—		
LFSG-10-1		78	—	31	26.5	—	7/8-14UNF		
LFSG-10-2		78	—	37	30	—			
LFSG-12	3/4"	166	16	34	31.5	19.1	—		
LFSG-12-1		94	—	34	31.5	—	1-1/16-14UNF		
LFSG-14	7/8"	172	17	37	31.5	22.3	—		
LFSG-18	1-1/8"	212	18	42	31.5	28.7	—		

Comparison table of refrigerant with water content and color

Medium	Water content PPM(one in a million)					
	25°C			43°C		
	Green/dry	Intermediate color/warning	Yellow/moist	Green/dry	Intermediate color/warning	Yellow/moist
R22/R502	<30	30~120	>120	<50	50~200	>200
R134a	<30	30~100	>100	<45	45~170	>170
R404a	<20	20~70	>70	<25	25~100	>100
R407C	<30	30~140	>140	<60	60~225	>225
R507	<15	15~60	>60	<30	30~110	>110
R401A	<66	66~266	>266	<135	135~540	>540
R410A	<60	60~280	>280	<75	75~420	>420

LEFOO

LFCV Charging valve



The charging valve is an one-way service valve with valve inside. The charging valve is used on the freezer; cold store and air - conditioning unit .Equipped with imported valve inside of reliable performance. Double sealing ensure leak-tight.Copper tube of various lengths and hardness are available. Valve bonnet is knurled for easy handling.

Model Selection

Type	Connection Thread	Tubing	Suitable Refrigerant	Tubing Length	Tubing Length	Nozzle	Nozzle	Hexagonal	Length
	[Inch]	[Inch]		A	B				
Type A Thimble Nut	7/16-20UNF	1/4 "	R22	30	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R410A	30	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R22	50	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R410A	50	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R22	35	24	6.35	Y	11	60.5
Type B FHCS	7/16-20UNF	1/4 "	R22	30	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R410A	30	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R22	50	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R410A	50	\	6.35	Y	11	55.5
	7/16-20UNF	1/4 "	R22	35	24	6.35	Y	11	60.5
Type C S17Hexnut	1/2-20UNF	1/4 "	R410A	30	\	6.35	Y	14	55.5
	1/2-20UNF	1/4 "	R410A	35	24	6.35	Y	14	60.5

Note: Copper tube size accepts customization

Technical Parameters

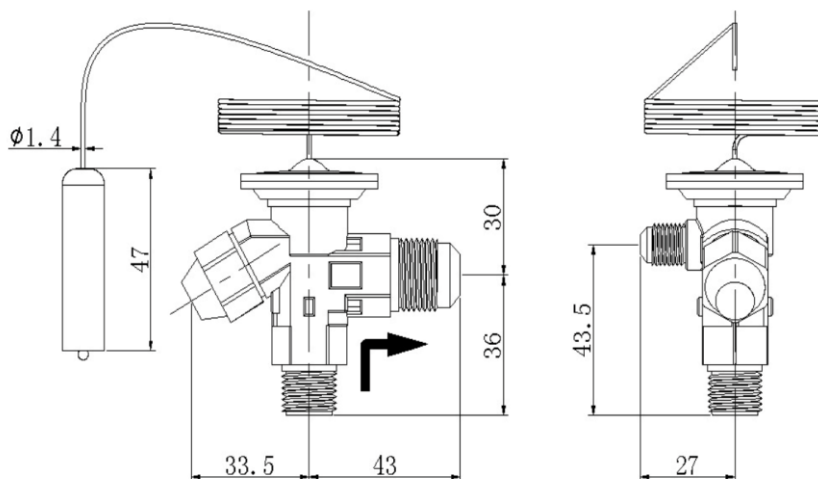
General	Value
Applicable Refrigerant	HCFC or HFC
Applicable Medium Temperature	-25°C~+120°C
Max. Operating Pressure	3.0MPa
Max. Allowable Pressure	4.5MPa

LFTEV

Thermostatic
Expansion valves



LEFOO



Dimension in : mm

Specifications and dimensions

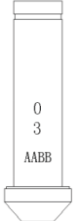
Refrigerant	Model	Balance type	Capillary (m)	Connection size					
				Inlet		Outlet		Equalization	
				inch	mm	in	mm	in	mm
R22	LFTX2	inner	1.5	3/8"	10	1/2"	12	—	
	LFTEX2	outer	1.5	3/8"	10	1/2"	12	1/4"	6
R407C	LFTZ2	inner	1.5	3/8"	10	1/2"	12	—	
	LFTEZ2	outer	1.5	3/8"	10	1/2"	12	1/4"	6
R134a	LFTN2	inner	1.5	3/8"	10	1/2"	12	—	
	LFTEN2	outer	1.5	3/8"	10	1/2"	12	1/4"	6
R404A/ R507	LFTS2	inner	1.5	3/8"	10	1/2"	12	—	
	LFTES2	outer	1.5	3/8"	10	1/2"	12	1/4"	6

The thermal expansion valve is used to regulate the supply of liquid refrigerant in the evaporator. The supply is controlled by the superheat of the refrigerant, so this valve is especially suitable for the supply of refrigerant liquid in the dry evaporator, because the superheat of the refrigerant at the outlet of the dry evaporator is proportional to the load of the evaporator.

Product Features

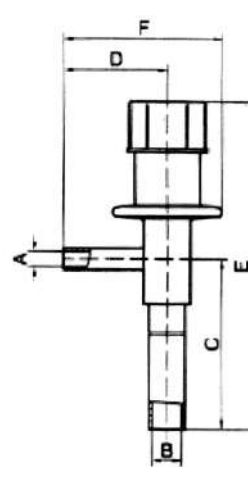
- Large evaporation temperature range.
- Interchangeable flow port components for easy inventory, pairing, and maintenance.
- The installation of the thermometer bulb is convenient, and there is good heat transfer effect between the pipeline and the thermometer bulb.
- The valve core and valve body are made of wear-resistant alloy, with a long service life.
- superheat regulation, performance stable.

Selection Table of Flow Port Components

Option	Nominal Refrigerating Capacity(RT) -40°C~+10°C				Nominal Refrigerating Capacity(KW) -40°C~+10°C			
	R22	R407C	R134a	R404A/ R507	R22	R407C	R134a	R404A/ R507
	0X	00	01	02	03	04	05	06
	0.15	0.16	0.11	0.11	0.5	0.5	0.4	0.38
	0.3	0.3	0.25	0.21	1.0	1.1	0.9	0.7
	0.7	0.6	0.5	0.45	2.5	2.7	1.8	1.6
	1.0	1.1	0.8	0.6	2.5	3.8	2.6	2.1
	1.5	1.6	1.3	1.2	5.2	5.6	4.8	4.2
	2.3	2.5	1.9	1.7	8.0	8.6	6.7	6.0
	3.0	3.2	2.5	2.2	10.5	11.3	8.6	7.7
	4.5	4.9	3.0	2.6	15.5	16.7	10.5	9.1

Technical Parameters

General	Value
Applicable Medium	All common HCFC and HFC refrigerants
Temperature range	-40°C ~ +60°C
Evaporation temperature range	-40°C ~ +10°C
Max working pressure	46bar
Equalization size	1/4"ODF,6mm ODF
Installation position	The top of the valve is facing upwards, and the fluid flows in the direction of the inlet and outlet



LFDBV

Discharge-Bypass
Valves



Model Selection

Dimensions and Weights

Model	Valve Size	Connections		Dimensions(mm)			
		Inlet(A)	Outlet(B)	C	D	E	F
LFDBV	0.5	6mmODF	10mmODF	58	36	106	54
	1.0						
	2.0	1/4"ODF	3/8"ODF	64	47	122	69
	3.0						
	4.0	10mmODF	16mmODF	64	47	122	69
	5.0						
	6.0	3/8"ODF	5/8"ODF				

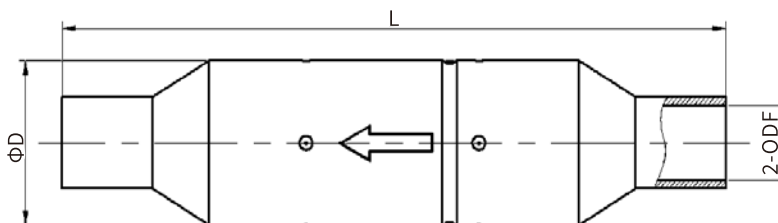
LFDBV discharge-bypass valve is a kind of load adjust component for the refrigerating system with a nonadjustable compressor. LFDBV discharge-bypass valve can be used as automatic expansion valve under fixed pressure to maintain the fixed evaporation pressure (temperature). LFDBV is capable of maintaining the minimum evaporating pressure. LFDBV discharge-bypass valve can automatically change the opening to get the constant outlet pressure on regardless of the change of the inlet pressure (within a certain range). ODF connecting. Maximum working pressure :28bar.

Capacities

Type	Valve size	Orifice size	Nominal capacity(kw)			
			R134a	R22	R404A	R507
LFDBV	0.5	0.7	0.98	1.4	1.0	1.0
	1.0	1.0	1.4	2.1	1.5	1.5
	2.0	2.0	2.9	4.2	3.0	3.0
	3.0	3.0	6.7	9.8	6.8	6.9
	4.0	3.5	8.9	12.8	9.0	9.0
	5	4.75	16.3	23.6	16.5	16.6
	6	5	20.4	30.6	21.4	21.6

LFDCV

Magnetic check valve



Diaphragm check valve adopts magnetic diaphragm design and is mainly used in refrigeration units, commercial cabinets or small central air conditioners and refrigeration equipment. It can be applied to the discharge side and suction side of compressors in high temperature and high pressure parts; the internal guide design makes the check valve not limited by the installation angle; the function of the check valve is to control the one-way flow of refrigerant and prevent backflow.

Features:

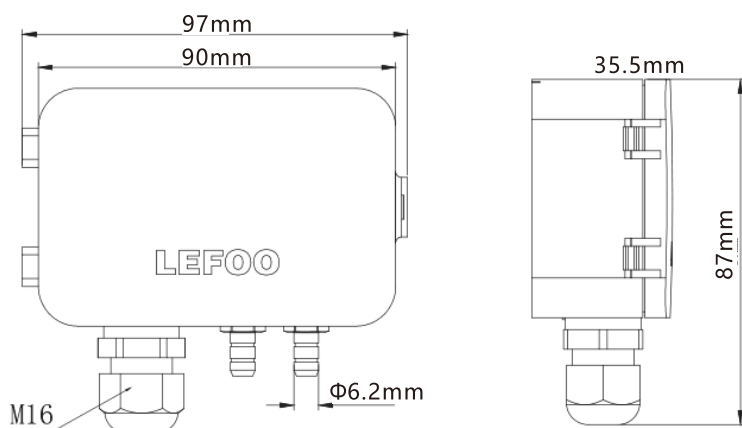
- Film-coated valve adopts flexible sealing, leakage in the reverse direction is negligible.
- Minimal flow resistance, pressure loss is negligible.
- Straight line, small size, light weight, unlimited installation angle
- A filter is installed in the valve body, with both function of check valve and filter.
- Compatible with all fluorinated refrigerant and oil.

Specification

General	Value
Medium	Fluorinated refrigerant like R22,R134a,R410A and oil.
Working temperature	-40°C ~ +120°C
Max working pressure	5.5MPa(Depend on model)
Installation position	Any direction(Fluid direction is indicated as arrow)

Model	ODF (in)	D (mm)	L (mm)	Filter density (mesh)	Max working pressure (kPa)	Refrigerate capacity R404A(KW)
LFDCV-4	1/4	22	102	40	5500	6.8
LFDCV-6	3/8	22	102	40	5500	14.2
LFDCV-8	1/2	29	127	40	5200	38.2
LFDCV-10	5/8	29	127	40	5200	42.6
LFDCV-12	3/4	41	178	40	4100	79.7
LFDCV-14	7/8	41	178	40	4100	108.5
LFDCV-18	1-1/8	54	213	40	4000	188.5
LFDCV-22	1-3/8	67	238	40	4000	232.8
LFDCV-26	1-5/8	80	267	40	3000	397.7
LFDCV-34	2-1/8	92	305	40	3000	691.1
LFDCV-42	2-5/8	105	330	40	3000	927.3
LFDCV-50	3-1/8	105	330	40	3000	1262.5

LEFOO



Dimension in : mm

LFM108 Order Ref NO

LFM108- 101Gor051D -MVL - M

A B C D

A One-way	B Two-way	C Output	D Protocol Type
101G=0-100Pa	101D=0±100Pa	AL=4~20mA	M=Modbus RTU(RS485 output only)
102G=0-1000Pa	102D=0±1000Pa	VL=0~10VDC	B=BACnet MS/TP(RS485 output only)
103G=0-10000Pa	251D=0±250Pa	VZ=0~5VDC	
251G=0-250Pa	252D=0±2500Pa	MOD=RS485	
252G=0-2500Pa	051D=0±50Pa	MVL=RS485、0~10VDC	
252G=0-2500Pa	051D=0±50Pa	MVZ=RS485、0~5VDC	
501G=0-500Pa	501D=0±500Pa		
502G=0-5000Pa	502D=0±5000Pa		
	103D=0±10000Pa		

Specification

MODEL	Value			
Testing Medium	Air or neutral gas			
Pressure Range	±100Pa, ±1000Pa, ±10000Pa			
Overload Pressure	Maximum 15 times the rated pressure			
Accuracy	±1%F.S			
Stability	Typical: +0.25%F.S/year			
Working Temp	-20°C~70°C			
Compensation Temp	-10°C~60°C			
Response Time	0.5s/1.0s/2s/4s			
Protection Grade	Ip54			
Electrical Connection	2-wired	3-wired	4-wired	5-wired
Output Signal	4-20mA	0~5V 0~10V	Rs485	0~10VDC RS485
Power Supply	10~30VDC	16~30VDC	12~30VDC	16~30VDC
Power Consumption	≤1.5W			
Communication	RS-485 standard interface, Modbus RTU protocol or BACnet MS/TP protocol			
Certificaton	ROHS certificaton, CE certificaton			
Electromagnetic Compatibility	EN 61326-1			
Shell Material	UL94-V0 and ABS industrial plastics			
Pressure Interface	Metal barbed interface, φ6.2mm			
Cable Connector	Maximum cable diameter φ8mm			
eight	140g			

LFM108

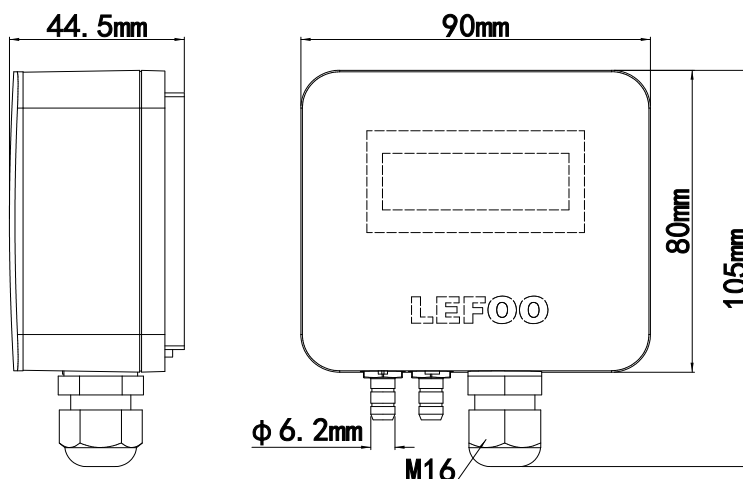
Differential
Pressure transmitter



LFM108 differential pressure transmitter is used to detect differential pressure or gauge pressure, and convert this differential pressure into proportional signal output. It can output 0-5/10V, 4-20mA or RS485 digital signal. This product is used in building energy management system to measure the precise pressure and flow required for building pressurization and air flow control. Also suitable for heating, ventilation and air conditioning (HVAC), energy management systems, VAV and fan control, environmental pollution control, static piping and clean room pressure fume hood control, oven pressurization and furnace ventilation control.

LFM11Series

Differential
Pressure transmitter



LFM11 series differential pressure transmitter adopts high-precision MEMS sensor, digital pressure acquisition and temperature compensation method, it has the characteristics of sensitive pressure response, long-term stable output, and excellent temperature performance, it can detect positive pressure, negative pressure or differential pressure. It is widely used in the monitoring of air or neutral gas. Various pressure units can be set inside, and range switching can be performed on site. It can be used for differential pressure detection in applications such as fans, blowers, filters, furnace ventilation, purification workshops, nuclide inspection booths and building ventilation.

Dimension in : mm

LFM11 Series Order Ref NO

LFM110 - N - A - C

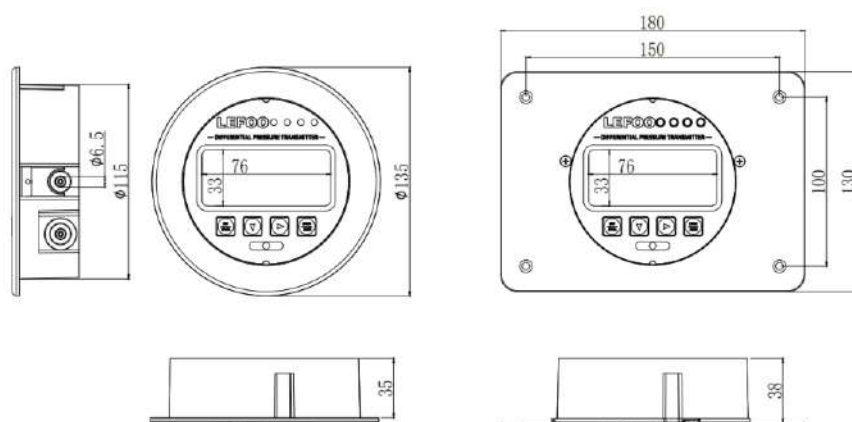
A B C D

A Span	B Display	C Output	D Accuracy
0=-1000~1000Pa	O=with display	A=4~20mA and 0~10VDC(Simultaneous output)	±1.0%FS
2=-10000~10000Pa	N=without display	B=4~20mA(2-wired)(No backlight)	
6=-100~100Pa		C=0~10VDC(3-wired)	
		D=0~5VDC(3-wired)	
		E=RS-485 communication	
		F=0~10VDC&RS485	

Specification

General	Value				
Testing Medium	Air or neutral gas				
Pressure Range	±100Pa, ±1000Pa, ±10000Pa				
Overload Pressure	5kPa(LFM116);10kPa(LFM110),80kPa(LFM112)				
Accuracy	±1%F.S	Protection Grade	Ip54		
Working Temp	-10℃~60℃	Storage Temp	-20℃~70℃		
Compensation Temp	-10℃~60℃	Response Time	0.5s/1s/2s/4s		
Pressure Connection	Metal barbed connection,Φ6.2 mm				
Electrical Connection	2-wired	3-wired	4-wired	5-wired	6-wired
	4-20mA (No backlight display)	0~5V 0~10V	Rs485	0~10VDC Rs485	4-20mA 0~5/10VDC
Power Supply	12~30VDC	16~30VDC	12~30VDC	16~30VDC	16~30VDC
Power Consumption	≤1.5W				
Shell Material	UL94-V0/ABS industrial plastic				
Communication	RS-485 Standard interface,Modbus RTU protocol				
Certifiaction	RoHS Certification, CE certification				
Electromagnetic Compability	EN 61326-1				
Display Mode	LCD Backlight digital display				
Weight	166g				

LEFOO



Dimension in : mm

LFM33

Micro-differential
Pressure instrument



LFM33 Differential Pressure Transmitter/Controller adopts high-precision MEMS digital pressure sensor, which can detect positive pressure, negative pressure or differential pressure. It has 4-20 mA & 0-10V or RS485 signal output, and variety of working mode settings to match the actual application requirements. Relay switch control is optional and can set pressure point independently. The internal buzzer and LED will indicate pressure alarm. Pressure unit switching and digital damping filter degree can be edited on site. It is widely used in air or neutral gas detection and control. It is suitable for air pressure detection of various ventilation and air conditioning systems and equipment, and for differential pressure detection of filter resistance in clean-room laboratories, and gas pipelines.

LFM33 Order Ref No.

LFM33-0 A R P B
A B C D E

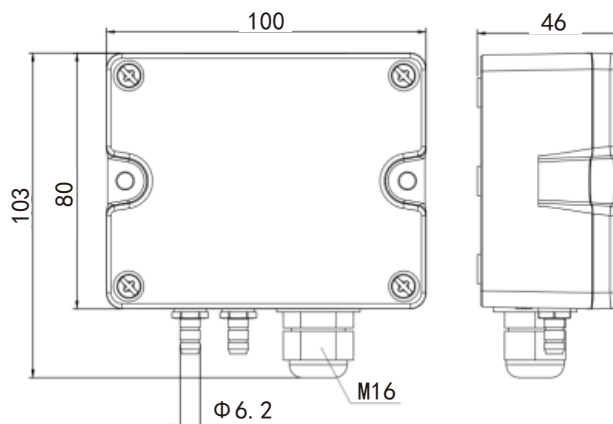
A Measurement Range	B Signal output mode	C Control output	D Installation Panel	E Air Intake method
6: -100~100Pa	N:N/A	N:N/A	P:Plastic panel(round)	F:Front panel air intake
0: -1000~1000Pa	E:RS-485 Communication	R: 2 SPDT relay + 1X Buzzer	S:Stainless steel panel(square)	B:Rear panel air intake
2: -10000~10000Pa	A:4~20mA and 0~10V	B:1xBuzzer		S:Side panel air intake
		D: 2 SPDT relays		

Specification

General	Value
Measured Medium	Air or neutral gas
Measurement range	±100Pa, ±1000Pa, ±10000Pa
Overload pressure	5KPa(LFM326);10KPa(LFM320);80KPa(LFM322);
Accuracy	±1%F.S
Working temperature	-10°C~60°C
Compensation temperature	-10°C~60°C
Storage temperature	-20°C~70°C
Protection level	Ip65
Pressure connection	Plastic concave interface Φ6.5mm
Signal output	4~20mA&0~10V Rs485
Control relay	2SPDT relay 3A @ 250VAC/30VDC
Power supply	16~30VDC
Consumption	≤2.5W
Housing material	UL94-V0/ABS industrial plastic
Communication	RS-485 standard interface , Modbus RTU protocol
Certification	RoHS,EU,CE
Magnetic compatibility	EN 61326-1
Display	76*33mm LCD display
Weight	360g

LFM52

Differential pressure Transmitter



Dimension in : mm

LFM52 differential pressure transmitter is the latest release. It has flexibility of multi-range sensor, high function of single range sensor, and is ideal for industrial application. The differential pressure transmitter has built in multiple optional pressure range and unit selection, and is easily to adjust through built-in DIP switch. The shell protect is IP65 and equipped with stainless steel conduit for convenient wire arrangement. It is widely used in HVAC, energy management system, VAV and fan control, clean room pressure, smokehood control, oven pressurization, furnace ventilation, furnace ventilation control etc.

LFM52 Series Order Ref NO

LFM52 - 6 - 0 - B - C

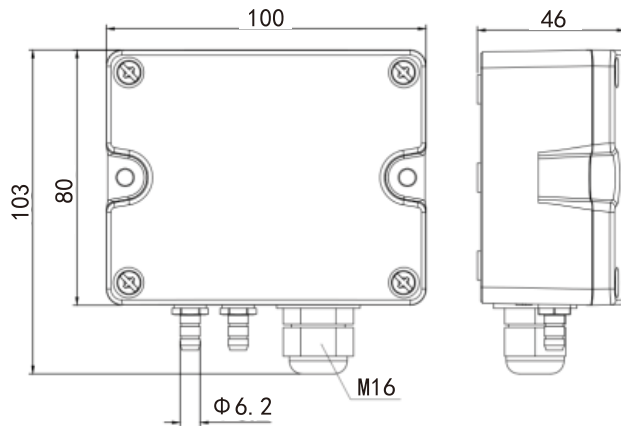
A B C D

A Measurement Range	B Display mode	C Output Mode	D Accuracy
6 = -100~100Pa	N = Without display	A = 4~20mA and 0~10VDC (Simultaneous output)	±1.0%FS
0 = -1000~1000Pa	0 = With display	B = 4~20mA (two-wired) (without backlight)	
2 = -10000~10000Pa		C = 0~10VDC (3-wired)	
		D = 0~5VDC (3-wired)	
		E = RS-485 communication	
		E1 = RS-485 communication (isolation output)	

Specification

General	Value			
Measured Medium	Air or Neutral gas			
Measurement Range	±100Pa, ±1000Pa, ±10000Pa			
Overload pressure	5kPa(LFM526);10kPa(LFM520);80kPa(LFM522);			
Accuracy	±1%F.S			
Working temperature	-20℃~70℃	Compensation temperature	-10℃~60℃	
Storage temperature	-40℃~70℃			
Response time	0.5s(Default)/1.0s/2s/4s			
Pressure connection	Ip65			
Pressure connection	Metal barbed interface, ϕ6.2mm			
Electrical connection	2-wired	3-wired	4-wired	6-wired
Signal output	4~20mA(No backlight)	0~5VDC/0~10VDC	RS-485	4~20mA&0~10VDC
Power supply	12~30 VDC	12~30VDC/24VAC +20%	9~30VDC	12~30VDC/24VAC +20%
Power consumption	≤1.5W			
Housing material	UL94-V0/PC			
Communication	RS-485 standard interface,Modbus RTU protoco			
Certification	RoHS,CE	Electromagnetic compatibility	EN 61326-1	
Display	LCD backlight digital display			

LEFOO



Dimension in : mm

LFM53

Differential pressure Transmitter



The LFM53 series differential pressure transmitter adopts the thermal micro -pressure core, use the micro-flowpath integrated by the sensor chip, detecting air pressure by detecting the changes in thermal flow. LFM53 has the characteristics of strong overload capacity, strong anti - interference ability, wide measurement range, and multi - signal output. It is widely used in the detection of air or neutral gas, such as HVAC, process control, environmental control, clean room, clean room or other systems that require micro - differential pressure detection.

LFM53 Order Ref No.

LFM53 - 1 - 0 - E

A B C

A Measurement Range	B Display mode	C Output type
1=-25~25Pa	N=Without display	A=4~20mA and 0~10VDC (Simultaneous output)
2=-50~50Pa	O=With display	E=RS-485 Communication
3=-100~100Pa		E1=RS-485 Communication (With isolation)

88

Specification

General	Value	
Measured Medium	Dry air and neutral gases	
Pressure Range	±25Pa, ±50Pa, ±100Pa	
Overload/Burst pressure	Overload pressure: 7kPa/Burst pressure: 20kPa	
Accuracy	±25Pa ±1Pa ±50Pa ±1%F.S ±100Pa ±0.5%F.S	
Operating temperature	-20°C~70°C	
Compensated temperature	-10°C~60°C	
Storage temperature	-40°C~80°C	
Temp.Drift Value	0.03%FS/°C	
Protection Level	Ip65	
Electrical connections	4-wired	6-wired
Output signal	RS-485	4~20mA/0~10VDC
Power Supply	9-30VDC/24VAC±20%	12-30VDC/24VAC±20%
Pressure Connection	Metal barbed interface, φ6.2mm	
Communication	RS-485 standard interface, Modbus RTU Protocol	
Certification	ROHS, CE	
Electromagnetic compatibility	EN 61326-1	

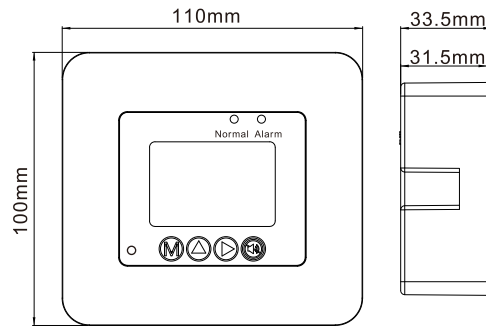
①When RS485 output (non-isolated) products use AC power, an isolated 24VAC power supply is required.

Mechanical Parameters

General	Value
Shell material	PC Industrial plastic
Flame retardant grade	UL94-V0
Protection grade	Ip65
Pressure port	Metal barb port Ø6.2mm
Cable gland	Cable diameter up to Ø8mm
Weight	200g

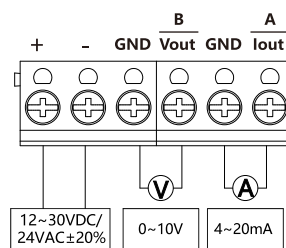
LFM55

Embedded differential Pressure transmitter

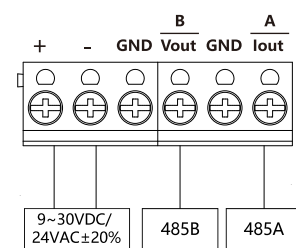


Dimension in : mm

LFM55 Differential Pressure Transmitter is widely used in differential pressure detection of air or neutral gas. The product installation takes up small space, and can be embedded in system surface or installed inside switch box. The product panel is made of 316L stainless steel. The surface is smooth and dust-free and has strong corrosion resistance, which meets clean room standard. Customers can setup measurement range, communication address and other functions on site. The product has sound and light alarm function, and can set the alarm pressure point, alarm delay time, and alarm function on/off on site. The product adopts imported micro-pressure sensing element with temperature compensation, and has the characteristics of sensitive pressure response, longterm output stability, and excellent temperature performance. The products can be widely used in clean rooms, operating rooms, dust-free laboratories, also suitable for HVAC, intelligent buildings and other applications.



• Wiring diagram of analog output version



• Rs485 output wiring diagram

LFM55 Order Ref No.

LFM55-1 A S
 A B C

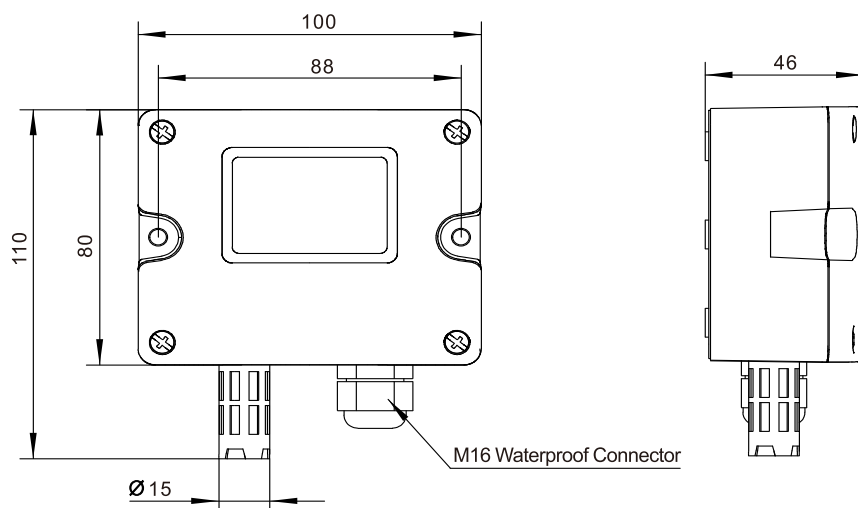
A Measurement Range	B Output Method	C Air Intake Direction
1:-25~25Pa	A:4~20mA&0~10VDC(simultaneous output)	S:Side Intake
2:-50~50Pa	E:RS-485 Communication	B: Rear Air Intake
3:-100~100Pa		F: Front Panel Air Intake
4:Customized Range		

Specification

General	Value	
Medium	Dry air and neutral gases	
Pressure range	±100Pa,Field configurable range	
Display	Backlit LCD display, display screen size 45×30 mm	
Display resolution	0.1Pa	
Overload pressure	7Kpa	
Accuracy	±1Pa	
Operating temperature	-20°C~70°C	
Compensation temperature	-10°C~60°C	
Storage temperature	-40°C~80°C	
Protection grade	Ip30	
Electrical connection	Four-wired	Six-wired
Output signal	Rs485	4~20mA/0~10VDC
Power supply ^①	9~30VDC/24VAC±20%	12~30VDC/24VAC±20%
Pressure connection	φ6.5mm,quick fit	
Communication	RS-485 Standard interface, Modbus RTU protocol	
Shell material	Fireproof Plastic UL94 V0 & Stainless Steel Panel	
Certification	ROHS,CE	
Weight (Approximate)	225g	

①When the product is powered by an AC power supply, it is recommended to use an isolated AC power supply.

LEFOO



Dimension in : mm

LFM57 Atmospheric Pressure transmitter



The LFM57 series atmospheric pressure transmitters are suitable for atmospheric pressure monitoring in various environments. Product installation takes up little space. Customers can customize the settings on site. The product adopts imported digital atmospheric pressure core, which has the characteristics of sensitive pressure response, stable long-term output and superior performance. The products are suitable for small weather stations, altimeters, archives and other places requiring atmospheric pressure monitoring.

LFM57 Order Ref No.

LFM57 - O - A4

A **B**

A Display Function

B Output Method

N=No display screen

A4=4~20mA

O=Have a display screen

V10=0~10VDC

RS=RS-485/Modbus

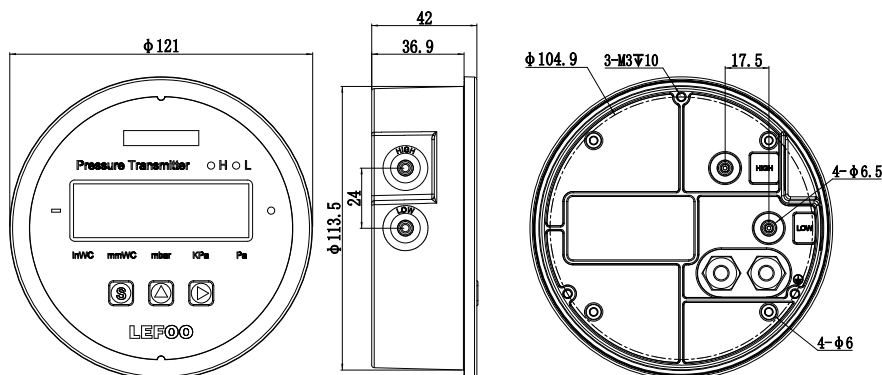
Specification

General	Value		
Medium	Air(non-condensing)		
Measuring range	15kPa~130kPa		
Pressure type	Absolute pressure		
Display	Optional LCD display,display area 45X30mm		
Display resolution	0.01kPa		
Overload pressure	200Kpa		
Accuracy	±0.25%F.S		
Operating temperature	-20℃~70℃		
Compensation temperature	-10℃~60℃		
Storage temperature	-40℃~70℃		
Protection grade	Ip65		
Electrical connection	Two-wire system	Three-wire system	Four-wire system ^①
Output signal	4~20mA	0~10VDC	Rs485
Power supply	12~30VDC	12~30VDC/24VAC±20%	
Communication	RS-485 Standard interface, Modbus RTU protocol		
Shell material	Flame retardant PCshell(UL94-V0),ABS probe housing and polymer filter layer		
Output load	≤250Ω(current output),≥5KΩ(voltage output)		

① When the product is powered by an AC power supply, it is recommended to use an isolated AC power supply.

LFM73

Multi-function Dp Transmitter/Controller



Dimension in : mm

LFM73 series digital differential pressure transmitter adopts high-precior, LED digital sion MEMS sensdisplay and transmitter output combination, used to detect the size of the pressure difference;Can completely replace the pointer type mechanical pressure gauge;The differential pressure transmitter pressure measurement range pressure unit can be easily adjusted by pressing the button, with IP65 protection grade housing,suitable for energy management systems,HVAC,VAV and fan control environmental pollution control, static pipeline and clean room pressure, smoke hood control,oven pressurization and boiler risk control system and other fields.

LFM73 Order Ref No

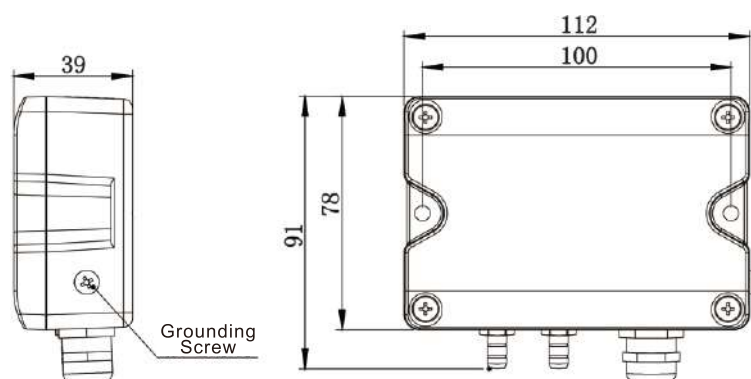
LFM73-0 -A R P B
 A B C D E

A Range	B Signal output type	C Control output	D Mounting panel	E Intake mode
6:-100~100Pa	N:N/A	N:N/A	P:Plastic panel	F:Front panel air intake
0:-1000~1000Pa	RS-485 Communication	R:2 SPDT Relays + 1xBuzzer		B:Back air intake
2:-10000~10000Pa	A:4~20mA and 0~10V	B:1 x Buzzer		S:Side air intake
	H:4~20mA and RS-485 Communication	D:2 SPDT Relays		

Specification

General	Value
Measured Medium	Air or non-corrosive gases
Measurement range	±100Pa,±1000Pa,±10000Pa
Overload Pressure	5KPa(±100Pa);10KPa(±1000Pa);80KPa(±10000Pa)
Accuracy	±1.0%FS
Operation Temperature	-20℃~80℃
Compensated Temperature	-10℃~60℃
Storage Temperature	-40℃~85℃
Response Time	0.5s(default)/1.0s/2s/4s
Protection Grade	Ip65
Pressure Connection	Concave Interface φ6.5
Output Signal	4~20mA(three wire)/0~10V/RS485
Control Signal	2*SPST,3A-30VDC/250VAC
Power Supply	16~30VDC/24VAC±20%
Wiring method	Cable leads from the back
Consumption	≤1.5W
Housing Material	Cast aluminum housing, PC panel
Communication	RS-485 standard interface, Modbus RTU protocol
Key	Three tap keys
Display	4 bit 0.8" nixie tube
Weight	390g

LEFOO



Dimension in : mm

LFM751

Intrinsic safety differential
Pressure transmitter



LFM751 Low Differential Pressure Transmitter can be used in hazardous situations. It has a cast aluminum housing and high level of protection. It is suitable for various complex industrial conditions, such as natural gas pipeline monitoring, power plant air supply system, and pharmaceutical factory clean engineering. It adopts high-precision imported MEMS micro-pressure sensing cell, with characteristics of fast pressure response, stable long-term output, superior temperature performance, convenient installation, and strong electromagnetic interference resistance. Two models available: intrinsically safe explosion-proof and intrinsically safe dust explosion-proof. Intrinsically safe explosion-proof can work in Zone 0, 1, and 2, and intrinsically safe dust explosion-proof can work in Zone 21 and 22.

LFM751 Order Ref No

LFM751 - 0 - B

A B

A Measurement range

B Explosion-proof model

6 = -100~100Pa

B = Intrinsically safe explosion-proof

0 = -1000~1000Pa

F = Intrinsically safe dust explosion-proof

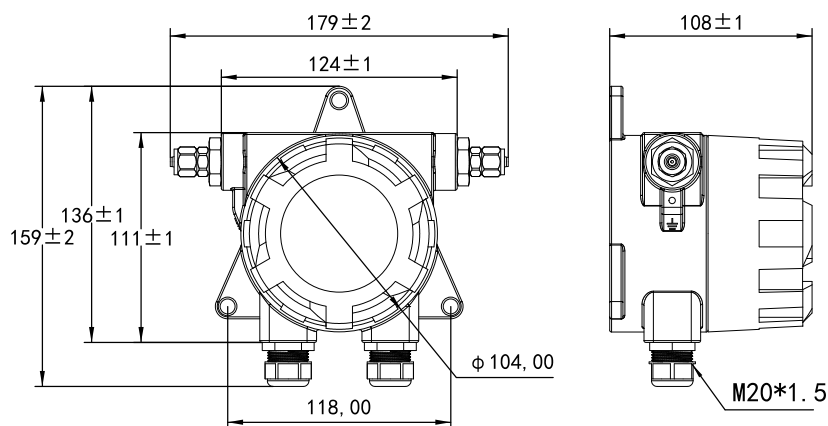
2 = -10000~10000Pa

Specification

General	Value
Pressure range	LFM751-6 -100~+100Pa(Min range:0~+50Pa)
	LFM751-0 -1000~+1000Pa(Min range:0~+100Pa)
	LFM751-2 -10000~+10000Pa(Min range:0~+1000Pa)
Over-voltage	10kPa(Range≤1000Pa)、80kPa(Range>1000Pa)
Accuracy	±0.5%F.S(Range≥500Pa)/±1%F.S(Range<500Pa)
Medium	Air and neutral gases
Temperature	-20°C~70°C
Compensation Temperature	-5°C~65°C
Storage Temperature	-40°C~80°C
Output	4~20 mA (two wire)
Load Resistance	≤250Ω
Power Supply	12~30 VDC
Explosion-proof mark	Ex ia II CT4 Ga /Ex ib III CT130°C Db
Explosion-proof Parameters	Ui:30VDC;Ii:120mA;Pi:0.75W;Ci:0.01uF;Li:0mH
Certificate	CE certification, intrinsically safe explosion-proof certification, intrinsically safe dust explosion-proof certification
Housing Material	ADC12 (Note: The product shell is made of aluminum alloy. The risk of ignition caused by impact or friction must be prevented during use.)
Protection Grade	Ip65
Pressure Connector	Metal barbed interface,φ6.2mm
Cable Connector	Max cable diameter φ8 mm
Weight	375g

LFM76

Explosion-proof differential Pressure transmitter



Dimension in : mm

LFM76 Explosion-proof Differential Pressure Transmitter is a high accuracy and high stability device designed for explosion risk environment. It is equipped with multiple optional pressure ranges, with easy on-site adjustment through buttons. Use Ip65 housing, suitable for energy management systems, HVAC, VAV and fan control, environmental pollution control, pressure and smoke hood control of static pipeline and clean room, oven pressurization, and boiler ventilation control.

LFM76 Order Ref No

LFM76-2 A B
A B

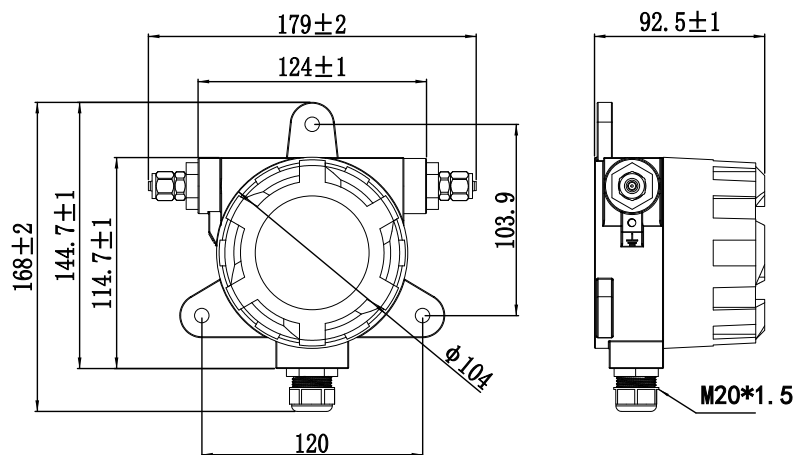
A Pressure Range	B Output Mode
1:-100~100Pa	A:4~20mA / RS485
2:-1000~1000Pa	B:4~20mA / 0~10VDC
3:-10000~10000Pa	C:0~10VDC / RS-485
X:Special requirements	

Specification

General	Value
Measurement Medium	Air or neutral gas
Pressure Range	±100Pa~±10000Pa(customized)
Over Voltage	10KPa;80KPa(LFM76-3)
Accuracy	±1.0%FS
Working Temperature	-20℃~80℃
Compensation Temperature	-10℃~60℃
Storage Temperature	-40℃~85℃
Response Time	0.5s(default)1.0s/2s /4s
Protection Degree	Ip65
Pressure Connection	Stainless steel 1/2"quick connection
Output Signal	4~20mA/0~10VDC/RS485
Power Supply®	12~30VDC/24VAC±20%
Power Dissipation	≤1.5W
Shell Material	Cast Aluminium
Communication	RS-485 standard interface, Modbus RTU protocol
Certification	ROHS,CE
Explosion-Proof Cert	Exd IIC T6 Gb
Display	LCD digital display
Weight (Approximate)	1362g

①When the product is powered by AC power, it is recommended to use an isolated AC power supply.

LEFOO



Dimension in : mm

LFM77

Embedded differential
Pressure transmitter



LFM77 Explosion-proof Differential Pressure Transmitter is a high accuracy and high stability device designed for explosion risk environment. It is equipped with multiple optional pressure ranges, with easy on-site adjustment through buttons. Use Ip65 housing, suitable for energy management systems, HVAC, VAV and fan control, environmental pollution control, pressure and smoke hood control of static pipeline and clean room, oven pressurization, and boiler ventilation control.

LFM77 Order Ref No

LFM77-2 A
 A B

A Pressure Range

1: -100 ~ 100Pa

2: -1000 ~ 1000Pa

3: -10000 ~ 10000Pa

X: Special requirements

B Output Mode

A: 4 ~ 20mA

B: 0 ~ 10VDC

C: RS-485

Specification

General	Value
Measurement Medium	Air or neutral gas
Pressure Range	$\pm 100\text{Pa} \sim \pm 10000\text{Pa}$ (customized)
Over Voltage	10KPa; 80KPa(LFM77-3)
Accuracy	$\pm 1.0\% \text{FS}$
Working Temperature	$-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
Compensation Temperature	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Storage Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Response Time	0.5s(default) 1.0s/2s/4s
Protection Degree	Ip65
Pressure Connection	Stainless steel 1/2" quick connection
Output Signal	4 ~ 20mA/0 ~ 10VDC/RS485
Power Supply ^①	12 ~ 30VDC/24VAC $\pm 20\%$
Power Dissipation	$\leq 1.5\text{W}$
Shell Material	Cast Aluminium
Communication	RS-485 standard interface, Modbus RTU protocol
Certification	ROHS, CE
Explosion-Proof Cert	Exd IIC T6 Gb
Display	LCD digital display
Weight (Approximate)	1362g

① When the product is powered by AC power, it is recommended to use an isolated AC power supply.
www.lefoo.com

LFT2000

General Type Pressure Transmitter

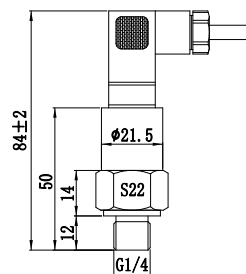


LFT2000 pressure transmitter is widely used in the measurement of fluid medium pressure in test systems such as fire protection, water treatment, water supply systems, air compressors, pneumatic devices, and factory automation. Adopt ceramic sensitive diaphragm with high overload capacity. It has excellent anticorrosion and anti-wear performance, adopts ASIC technology, MEMS technology, and digital compensation. And it has the characteristics of small size and low price. can be applied in various complex environment.

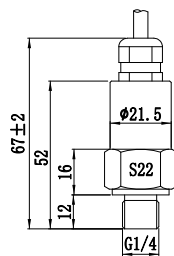
LFT2000 Order Ref No.

LFT2000 0-16 A4 B 1.0 P G 1.0
A B C D E F G

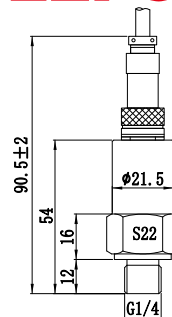
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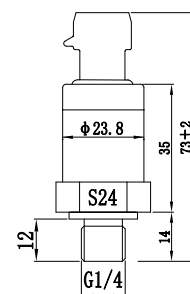
Small Hirschmann Connector



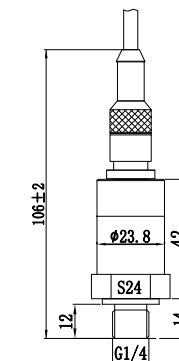
M12 Cable Outlet



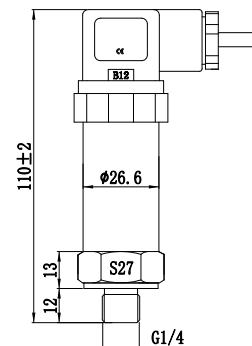
GX12 Aviation Connector



Packard Connector



M12 Aviation Connector



Big Hirschmann Connector

A MeasurementRange: -100kPa~0.3MPa...6MPa ,0~0.3MPa...60MPa

B MeasurementUnit: K = kPa,P = psi,B = Bar ,M = MPa

C Output Mode: A4 = 4~20mA(2-wired)V05 = 0.5~4.5V(3-wired)V0 = 0~5V(3-wired)V10 = 0~10V(3-wired)

D Accuracy: 0.5 = 0.5%FS 1.0 = 1.0%FS

E Electrical Connection: P = Packard(Packard),D = DIN43650C(Small Hirschmann),D1 = DIN43650A(Big Hirschmann)

M = M12 (M12waterproof outlet),C3=GX12 Three core aviation connector,C4=GX12 Four core aviation connector,H=M12 Four core aviation connector

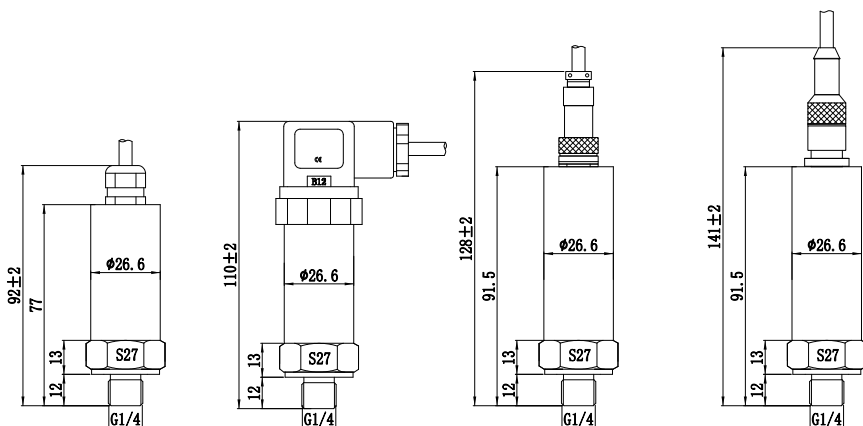
F Pressure Connection: G = G1/4,G2 = G1/2,N = NPT1/4,M20 = M20*1.5,R = R1/4,U=7/16-20UNF External thread,B = BSP1/4

G Cable Length 1.0 = 1m,2.0 = 2m,3.0 = 3m

Specification

General	Value			
Measurement Range	-100kPa~0.3MPa...6MPa ,0~0.3MPa...60MPa			
Overload Pressure	1.5 times the rated pressure(up to 80Mpa)			
Burst Pressure	2 times the rated pressure(up to 90Mpa)			
Accuracy	±0.5%F.S,±1.0%F.S			
Stability	<0.5%F.S/year			
Working Temp	-20~85°C			
Storage Temp	-40~100°C			
Measured Medium	Gas or liquid compatible with 1Cr18Ni9Ti, 304 stainless steel, Fluorine rubber or Nitrile rubber			
Electrical Properties	2-wired	3-wired		
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC
Electrical Connections	Packard, DIN43650C (small Hirschmann), DIN43650A (big Hirschmann), M12 waterproof outlet, M12 aviation connector, GX12 aviation connector (three-core/four-core)			
Enclosure Protection	IP54(GX12 aviation connector,Packard),IP65(DIN43650A,DIN43650C,M12 waterproofoutlet.M12 four-core aviation connector)			
Pressure Connection	G1/4,NPT1/4,R1/4,BPS1/4,G1/2,7/16-20UNF,M20*1.5,M10*1,M14*1.5etc			
Pressure Form	Gauge Pressure G			
Certification	Safety explosion-proof type E, RoHS, EU electrical safety standard CE			

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M12 cable outlet Hirschmann connector GX12 aviation connector M12 aviation connector

Dimension in : mm

LFT2010

High Accuracy
Pressure Sensor



LFT2010 high-precision pressure transmitter adopts a high-precision oil-filled diffusion silicon core, and is automatically tested by a computer, and the zero point and temperature performance compensation in a wide temperature range is carried out by a laser resistance trimming process. This model has the features of high precision, high quality, small size and easy installation. Adopt high-performance MCU with low power consumption to collect pressure signals and convert into standard analog signal output, which is widely applied in fluid media pressure measurement in high-precision test systems such as fire protection, water treatment, water supply systems, air compressor pneumatic devices, and factory automation.

LFT2010 Order Ref NO

LFT2010 0-30 B A4 0.1 D1 G 1.0
A B C D E F G

A Measurement Range 0~0.1...4MPa

B Measurement Unit K=kPa P=psi M=MPa B=Bar

C Output Mode A4 = 4~20mA(2-wired) V0 = 0~5V (3-wired)

V10 = 0~10V (3-wired) RS = RS-485 (4-wired)

D Accuracy 0.1= 0.1%F.S

E Electrical Connection D1 = DIN43650A(Big Hirschmann), M = M12(M12Waterproof outlet)

C3=GX12 Three-core aviation connector, C4=GX12 Four-core aviation connector, H=M12 Four-core aviation connector

F Pressure Connection G1= G1/4 G2 = G1/2 N = NPT1/4 M3 = M20*1.5 R=R1/4 M2= M12*1

G Cable Length 1.0 = 1m 2.0 = 2m 3.0 = 3m

Specification

General	Value			
Measurement Range	0~0.1...4MPa			
Overload Pressure	1.5 times of the rated pressure			
Accuracy ^①	±0.1%F.S			
Stability	<0.1%F.S/year			
Working Temp	-20~85℃			
Storage Temp	-40~100℃			
Measured Medium	Gas or liquid compatible with 304 and 316L stainless steel, Fluorine rubber or Nitrile rubber			
Electrical Properties	2-wired	3-wired		4-wired
Output Signal	4~20mA	0~5V ^②	0~10V ^③	Rs485
Power Supply	10~36VDC	10~36VDC	14~30VDC	10~30VDC
Electrical Connection	DIN43650A (Big Hirschmann),M12 waterproof outlet, GX12 aviation connector(three-core/four-core),M12 four-core aviation connector			
Enclosure Protection	IP54(GX12 aviation connector),IP65(DIN43650A,M12 waterproofoutlet.M12 four-core aviation connector)			
Pressure Connection	G1/4,NPT1/4,R1/4,G1/2,7/16-20UNF,M20*1.5,M10*1,M14*1.5etc.			
Pressure Form	Gauge Pressure G			
Certification	ROHS,EU electrical safety standard CE			

①Measured at 25℃, including the comprehensive accuracy of linearity, repeatability and hysteresis

②When the output is 0-5V, the accuracy of zero-point pressure is 0.25%

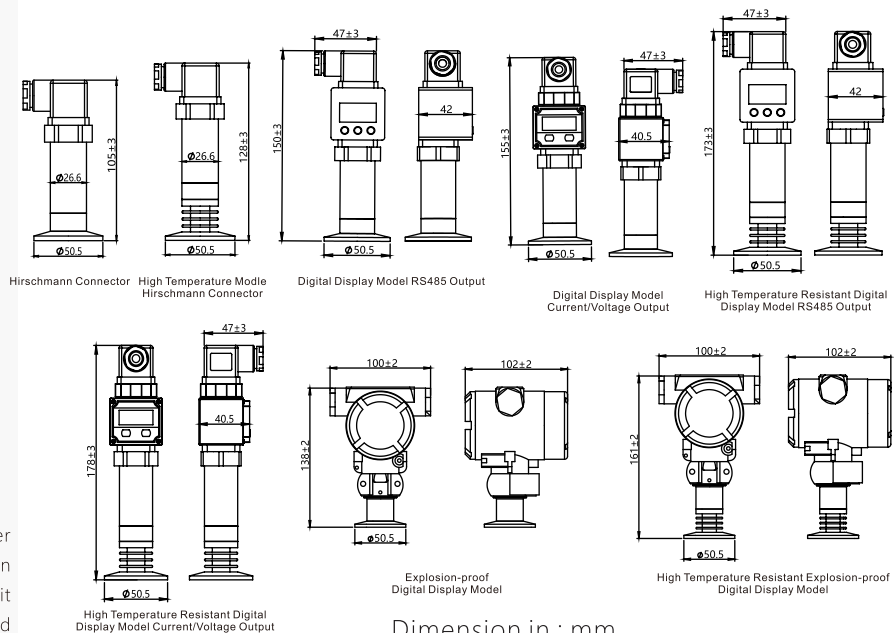
③When the output is 0-10V, the accuracy of zero-point pressure is 0.25%

LFT2020

Sanitary Flat Membrane Pressure Transmitter



LFT2020 Sanitary Flat Membrane Pressure Transmitter adopts high-performance oil-filled diffusion silicon core. The internal special-purpose integrated circuit converts the millivolt signal of the sensor into standard voltage, current or 485 signal, which can be directly connected with computer interface card, control instrument, intelligent instrument or PLC. The process connection of the pressure transmitter is sealed by sterile chuck type diaphragm, which is widely applied in the food, dairy, chemical and pharmaceutical industries.



Dimension in : mm

LFT2020 Order Ref NO

LFT2020 0-10 B A4 1.0 D1 K2 N 1.0
A B C D E F G H

A Measurement Range -100kPa...0~10kPa...6MPa

B Measurement Unit K = kPa M = MPa P = psi B = Bar

C Output Mode A4 = 4~20mA(2-wired) V05 = 0.5~4.5V(3-wired) V0 = 0~5V(3-wired) V10 = 0~10V(3-wired) RS = RS-485 output(4-wired)

D Accuracy 0.5 = 0.5%F.S 0.1 = 0.1%F.S

E Electrical Connection D1 = DIN43650A(Big Hirschmann), M = M12(M12 Waterproof outlet), C3 = GX12 Three-core aviation connector C4 = GX12 Four-core aviation connector, H = M12 Four-core aviation connector, M = M20 waterproof cable outlet(Explosion-Proof digital display)

F Pressure Connection K2 = 50.5mm chunk connection

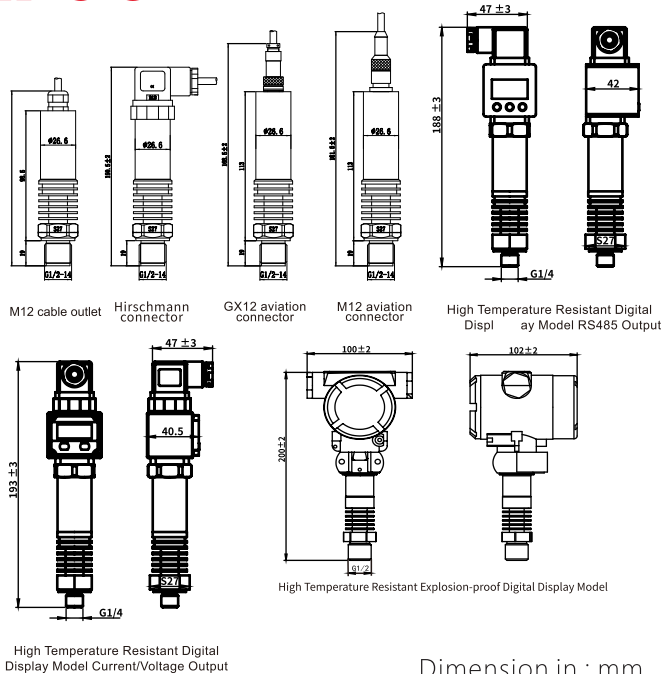
G Digital Display Mode N = Without display(General type), D1 = General type digital display, D2 = Explosion-proof digital display

H Cable Length 1.0 = 1m 2.0 = 2m

Specification

General	Value			
Measurement Range	-100kPa...0~10kPa...6MPa			
Overload Pressure	1.5 times of the rated pressure			
Accuracy ^①	±0.5%F.S			
Stability	<0.5%F.S/year			
Working Tempe ^②	-20~85℃			
Mediam-Temp ^③	-40℃~100℃/-40℃~150℃			
Measure Medium	Media Compatible with 316L Stainless Steel, Selected Rubber Rings			
Sanitary Flat Membrane Pressure Transmitter				
Electrical Properties	2-wired	3-wired	3-wired	4-wired
Output Signal	4~20mA	0.5~4.5V	0~10V	RS485
Power Supply	8~36VDC	4.75~5.25VDC	2~36VDC	10~30VDC
Electrical Connection	DIN43650A (Big Hirschmann),M12 waterproof outlet, M12 aviation connector(four cores),GX12 aviation connector (three/four cores)			
Explosion-proof Digital Display Sanitary Flat Membrane Pressure Transmitter				
Electrical Properties	2-wired	3-wired		4-wired
Output Signal	4~20mA	0~10V		Rs485
Power Supply	10~30VDC	12~36VDC		10~36VDC
Electrical Connection	M20 waterproof outlet			
Enclosure Protection	IP54(GX12 AVIATION CONNECTOR),IP65(DIN43650A,M12 WATERPROOF OUTLET,M20WATERPROOFOUTLET,M12 FOUR-CORE AVIATION CONNECTOR)			
Pressure Connection	50.5mm chuck connection			
Pressure Form	Gauge Pressure G/Absolute Pressure A			
Certification	ROHS,EU electrical safety standard CE			

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Dimension in : mm

LFT2030

High Temperature Resistance Pressure Sensor



LFT2030 high temperature resistant pressure transmitter adopts high-performance pressure core, and the internal special integrated circuit converts millivolt signal of the sensor into standard voltage, current or 485 signal, which can be directly connected with computer interface card, control instrument, smart instrument or PLC, etc. Long-distance transmission can use the current output method. It has the characteristics of small size, light weight, tall stainless steel sealing structure, etc. and can work in corrosive environment. The product is easy and simple to install, has very good anti-vibration and anti-shock performance, and is widely applied in process control, HVAC, medical equipment and other fields.

LFT2030 Series Order Ref NO

LFT2030 0-60 B A4 1.0 D1 G B N 1.0
A B C D E F G H I

A Range	-100kPa...0~10kPa...60MPa(Oil-filled silicone)			-100kPa~0.3MPa...1.6MPa(ceramics)		
B Measurement Unit	K = kPa M = MPa P = psi B = Bar					
C Output Mode	A4=4~20mA(2-wired) , V05=0.5~4.5V(3-wired) V0 = 0~5V(3-wired) , V10 = 0~10V(3-wired), RS=RS-485 output(4-wired)					
D Accuracy	0.5 = 0.5%F.S 1.0 = 1.0%F.S					
E Electrical Connection	D1 = DIN43650A(Big hirschman), M = M12(M12 waterproof outlet), C3=GX12 Three-core aviation connector, C4=GX12 Four-core aviation connector, H=M12 Four-core aviation connector, M20=M20waterproof outlet(Explosion-proof digital display)					
F Pressure Connection	G = G1/4 G2 = G1/2 N = NPT1/4					
G Corespecifications	A=Ceramic core B=Oil-filled silicon core					
H Digital Display Mode	N=Without display(General type) D1=General type digital display D2=Explosion-proof digital display					
I Cable Length	1.0 = 1m 2.0 = 2m		3.0 = 3m			

Specification

General	Value				
Measurement Range	-100kPa...0~10kPa...60MPa(Oil-filled silicone)			-100kPa~0.3MPa...60MPa(ceramics)	
Overload Pressure	1.5 times of the rated pressure				
Accuracy	±0.5%F.S			±0.5%F.S/±1.0%F.S	
Stability	<0.5%F.S/year				
Working Temp	-20~+85℃				
Medium Temp	5 pcs heat sink: 180℃, 10 pcs heat sink: 260℃				
Measured Medium	Gas or liquid compatible with S304 and 316LFluorine rubber or Nitrile rubber			Gas or liquid compatible with 1Cr18Ni9Ti, S304Fluorine rubber or Nitrile rubber	
High Temperature Resistant Pressure Transmitter					
Electrical Properties	2-wired	3-wired voltage			4-wired
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V	RS485
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~30VDC	10~30VDC
Electrical Connection	DIN43650A(Big Hirschmann),M12 waterproof outlet,GX12 aviation connector(three-core/four-core),M12 four-core aviation connector				
Explosion-proof Digital Display High Temperature Resistant Pressure Transmitter					
Electrical Properties	2-wired	3-wired			4-wired
Output Signal	4~20mA	0~10V			RS485
Power Supply	10~36VDC	12~36VDC			10~36VDC
Electrical Connection	M20 waterproof outlet				
Enclosure Protection	IP54(GX12 aviation connector),IP65(DIN43650A,M12 waterproof outlet,M20waterproof outlet,M12 four-core aviation connector)				
Pressure Connection	G1/4,NPT1/2,G1/2				
Pressure Form	Gauge Pressure G/Absolute Pressure A				
Certification	RoHS, EU electrical safety standard CE				

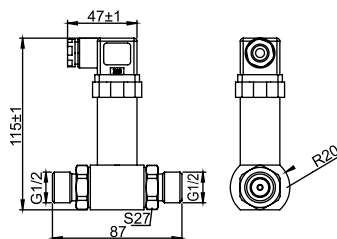
LFT2050

Differential Pressure Sensor

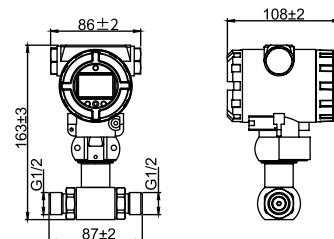


LFT2050 Differential Pressure Sensor uses silicon piezoresistive differential pressure sensor as the core components. Through temperature compensation, digital circuit correction and signal conditioning, it then outputs standard industrial signal. It adopts stainless steel structure shell, with strong corrosion resistance. Featured with advanced design, perfect technology, excellent equipment, stability and reliability, the Transmitter is widely used in various differential pressure measurement, especially in aviation, automobile, chemical industry, medical equipment, shipping, and etc.

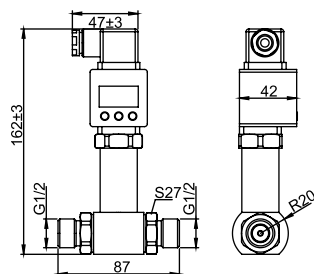
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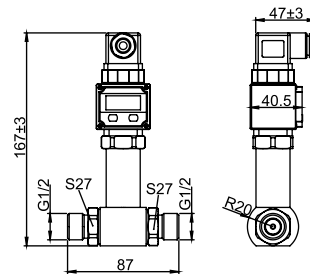
Hirschmann Connector



Explosion-proof Digital Display Model4



Digital Display Model-RS485



Digital Display Model-Current, Voltage

Dimension in : mm

LFT2050 Order Ref NO

LFT2050	0-60	B	A4	0.25	D1	G	N	1.0
	A	B	C	D	E	F	G	H

A Range 0~10Kpa...3.5MPa

B Measurement Unit K = kPa M = MPa P = psi B = Bar

C Output Signal A4 = 4~20mA(2-wired) V10 = 0~10V(3-wired) V05=0.5~4.5V(3-wired) V0=0~5V(3-wired) RS= RS-485(4-wired)

D Accuracy 0.25 = 0.25%F.S 0.1 = 0.1%F.S

E Electrical Connection D1 = DIN43650A(Big Hirschmann) M = M12(M12 Waterproof outlet) C3=GX12 Three-core aviation connector C4=4-core aviation connector, H=M12 Four-core aviation connector M20=M20waterproofoutlet(Explosion-proof digital display)

F Pressure Connection G = G1/4 G2 = G1/2 R = R1/4 M = M20*1.5 N = NPT1/4

G Digital Display Mode N=Without display(General type) D1=General type digital display D2=Explosion-proof digital display

H Cable Length 1.0 = 1m 2.0 = 2m 3.0 = 3m

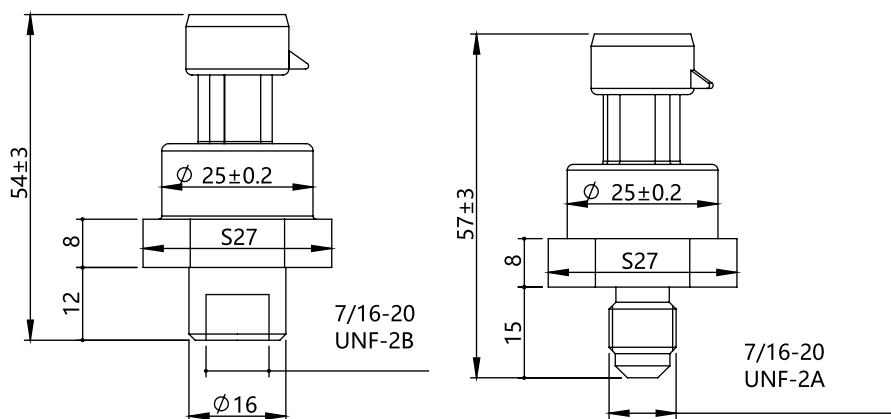
Specification

General	Value
Measurement Range	0~10Kpa... 3.5MPa
Overload Pressure	1.5 times of the rated pressure
Accuracy	±0.25%F.S(100kPa...3.5MPa)/±0.5%F.S(0...100KPa)
Stability	<0.5%F.S/Year
Working Temp	-40~60℃
Storage Temp	-40~100℃
Measured Medium	Gas or liquid compatible with 304 and 316L stainless steel, Fluorine rubber or Nitrile rubber

Differential Pressure Transmitter					
Electrical Properties	2-wired	3-wired			4-wired
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V	Rs485
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC	10~30VDC
Electrical Connection	DIN43650A (Big Hirschmann), M12 waterproof outlet, GX12 aviation connector(three-core/four-core), M12 four-core aviation connector				

Explosion-proof Digital Differential Pressure Transmitter			
Electrical Properties	2-wired	3-wired	4-wired
Output Signal	4~20mA	0~10V	Rs485
Power Supply	10~36VDC	12~36VDC	10~36VDC
Electrical Connection	M20 waterproof outlet		
Pressure Connection	G1/4, NPT1/4, R1/4, G1/2, 7/16-20UNF, M20*1.5, M10*1, M14*1.5 etc.		
Pressure Form	D(Differential pressure)		
Enclosure Protection	IP54(GX12aviationconnector), IP65(DIN43650A, M12 waterproof outlet, M20 waterproof outlet, M12 four-core aviation connector)		
Certification	EU electrical safety standards CE, RoHS		

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Dimension in : mm

LFT2060

Refrigeration
Pressure Transmitter



LFT2060 pressure transmitter adopts ceramic capacitor core, which is an ideal choice for refrigerant pressure measurement occasions. The standard 0.5-4.5V output signal, has the advantages of wide operating temperature high precision, high waterproof level, and anti-condensation water. It is suitable for the pressure measurement of most common refrigerants, and also has a high burst pressure.

LFT2060 Order Ref NO

LFT2060 0-50 B V05 1.5 P A 1.0 T1
A B C D E F G H

A Range	B Measurement Unit	C Output Mode	D Accuracy	E Electrical Connection	F Pressure Connection	G Cable Length	H Working Temp
0~10...50Bar	K = kPa	V05 = 0.5~4.5V(Three-wired)	1.5= 1.5%FS	P = Packard(Packard)	A=7/16-20UNF External thread	1.0 = 1m	T1=-20°C~80°C
	p = psi	(Proportional voltage output)	2.5= 2.5%FS		B=7/16-20UNF Internal thread	2.0 = 2m	T2=-40°C~120°C
M = MPa							
B = Bar							

Specification

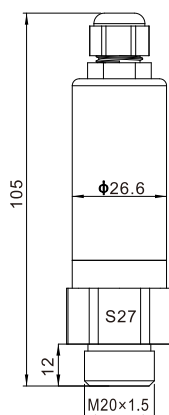
General	Value
Measurement Range	0~10...50Bar
Overload Pressure	2 times of the rated pressure
Burst Pressure	3 times of the rated pressure
Accuracy	±1.5%F.S (-20~80°C) ±2.5%F.S (-40~120°C)
Working Temp	-40~120°C
Refrigerant Medium	R12,R22,R32,R134a,R404a,R407c, R410a,R502,R507
Electrical Properties	3-wired
Output Signal	0.5~4.5V(Proportional voltage output)
Power Supply	4.75~5.25VDC
Electrical Connection	Packard
Dielectric Strength	500VACfor1min
Enclosure Protection	Ip67
Pressure Connection	7/16-20UNF Internal thread / 7/16-20UNF External thread
Pressure Form	Gauge Pressure G
Certification	RoHS, EU electrical safety standard CE

LFT2080

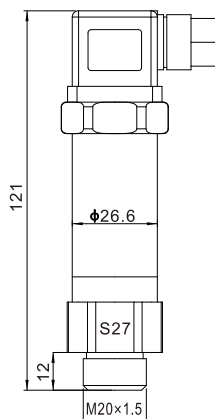
Anti-corrosion
Pressure transmitter



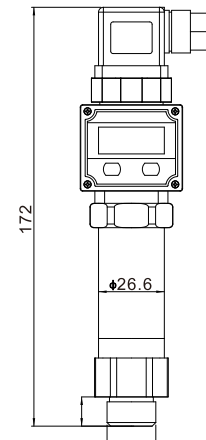
LFT2080 Anti-corrosion Pressure Transmitter adopts a ceramic piezoresistive core with high overload capacity, which has excellent anti-corrosion and anti-wear properties. It adopts AS IC technology and is mainly used for water disinfection, chlorine, chemical industry, battery equipment and other media where the medium is strong acid, strong alkali or other highly corrosive industries, as well as pressure measurement in food hygiene, medical and other industries.



M12 Waterproof cable outlet



Big Hirschmann



Conventional digital display-current, voltage

Dimension in : mm

LFT2080 Order Ref No

LFT2080 0-1 B A4 1.0 M G2 P N 1.0
A B C D E F G H I

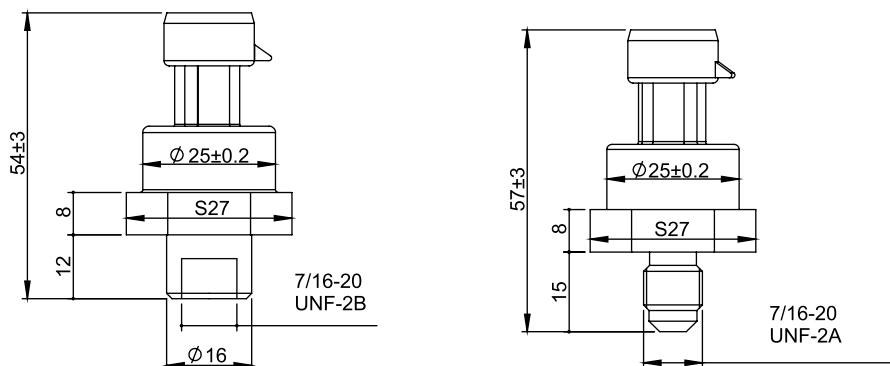
A Range	B Unit	C Output Mode	D Accuracy	E Electrical Connection	F Pressure Connection	G Shell Material	H Display Mode	I Cable Length
-100kPa~100kPa...2MPa	K = kPa	A4=4~20mA(2 wired)	0.5=0.5%FS	D1=DIN43650A(Big Hirschmann)	G2 = G1/2	P = PVDF	N=without display(default)	1.0= 1m
	B = Bar	V05 =0.5~4.5V(3 wired)	1.0= 1.0%FS	M=M12(M12 waterproof outlet)	M20=M20*1.5	S=Stainless steel	D1=with display	2.0= 2m
	P = psi	V0=0~5V(3 wired)						3.0= 3m
	M = MPa	V10=0~10V(3 wired)						

Specification

General		Value		
Pressure Range	-100kPa~100kPa...2MPa			
Overload Pressure	1.5 times of the rated pressure			
Destroying pressure	2 times the rated pressure			
Accuracy	±0.5%F.S、 ±1%F.S			
Stability	<0.5%F. S/year			
Working Temp	-20~80℃			
Storage temperature	-20~80℃			
Measured medium	Gas or liquid compatible with 1Cr18Ni9Ti, PVDF, fluoroelastomer or perfluoroether rubber			
Anti-corrosion pressure transmitter				
Electrical Properties	2 wired	3 wired		
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC
Electrical Connection	DIN43650A(Big Hirschmann), M12 waterproof Cable outlet			
Display anti-corrosion pressure transmitter				
Electrical Properties	2 wired		3 wired	
Output Signal	4~20mA		0~10V	
Power Supply	12~30VDC		12~30VDC	
Electrical Connection	DIN43650A(Big Hirschmann)			
Enclosure Protection	I P65			
Pressure Connection	G1/2,M20*1.5			
Pressure Form	Gauge Pressure G			
Certification	RoHS			

Note①: Measured at 25°C, including comprehensive accuracy of linearity, repeatability and hysteresis.

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Dimension in : mm

LFT2600

Refrigeration
Pressure Sensor



LFT2600 refrigeration pressure transmitter adopts a high-performance pressure-sensing core, and with advanced circuit processing and temperature compensation technology to convert pressure changes into linear voltage signals. The product is small in size, easy to install, adopts stainless steel shell for isolation and anti-corrosion, and has a wide operating temperature range. It is suitable for measuring gas and liquid and other media that are compatible with the materials in contact with it. It is widely applied in the medium pressure measurement of air conditioning, refrigeration, cooling systems and other test systems.

LFT2600 Order Ref NO

LFT2600 0-50 B V05B 2.0 P A 1.0
A B C D E F G

A Range	B Measurement Unit	C Output Mode	D Accuracy	E Electrical Connection	F Pressure Connection	G Cable Length
0~10...50Bar	M= MPa B = Bar	V05 = 0.5~4.5V(3-wired)	0.8 = 0.8%F.S 2.0 = 2.0%F.S	P = Packard	A = 7/16 External thread B = 7/16-20UNF Internal thread	1.0 = 1m

Specification

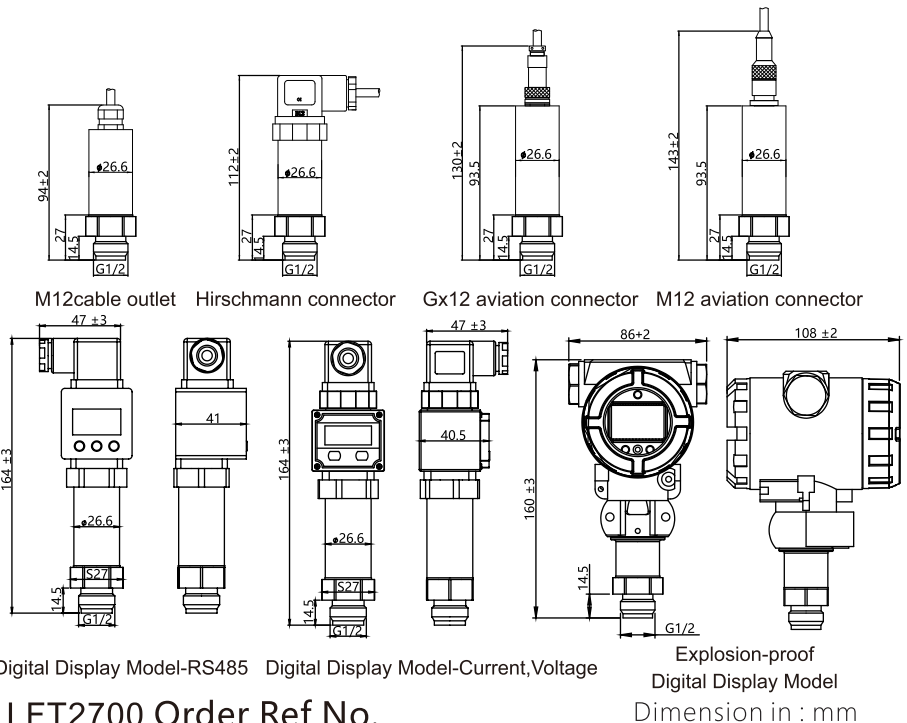
General	Value
Measurement range	0~10...50Bar
Max Overload Pressure	1.5 times of measurement range
Accuracy	±2.0%F.S (-30~120°C) / ±0.8%F.S (-40~40°C)
Working Temp	-40~120°C
Storage Temp	-40~120°C
Power Supply	4.75-5.25VDC
Output	0.5~4.5VDC
Refrigerant Medium	R12,R22,R32,R134a,R404a,R407c, R410a,R502,R507
Pressure Connection	7/16-20UNF internal thread/7/16-20UNF external thread
Electrical Connection	Packard
Pressure Form	Gauge Pressure G
Enclosure Protection	Ip67
Certification	RoHS, EU electrical safety standard CE

LFT2700

Flat Film Pressure Transmitter



LFT2700 flat film pressure transmitter uses 316L flat film sensor, which has the features of anti-clogging, easy to clean, can directly measure the pressure of viscous liquid, and has excellent corrosion and wear resistance. Adopt ASIC technology, digital compensation, thread connection, easy installation and maintenance, the thread connection can choose a variety of exterior structure and a variety of electric output mode can be chosen, gauge or absolute pressure diffusion silicon flat film thread sensor can directly measure viscous medium, such as the detection system of chemical coating paint, environmental protection, coal mine, papermaking, food processing, Polyurethane equipment, oil and others.



A Measurement Range: -100kPa...0~20kPa...35MPa

B Measurement Unit: K=kPa, P=psi, M=MPa, B=Bar

C Output Mode: A4 = 4~20mA(2-wired), V05 = 0.5~4.5V(3-wired), V0 = 0~5V(3-wired), V10 = 0~10V(3-wired), RS = RS-485 Output(4-wired)

D Accuracy : 0.5 = 0.5%F.S, 1.0 = 1.0%F.S

E Electrical Connection: D1 = DIN43650A(Big Hirschmann) , M = M12(M12 waterproof outlet) , C3=GX12 three-core aviation connector , C4=GX12 four-core aviation connector , H=M12 four-core aviation connector , M20=M20 waterproof cable outlet(Explosion-Proof digital display)

F Pressure Connection: G = G1/2

G Digital Display Mode: N=Without display(General type) , D1=General type digital display®, D2=Explosion-proof digital display

H Cable Length: 1.0 = 1m, 2.0 = 2m, 3.0 = 3m

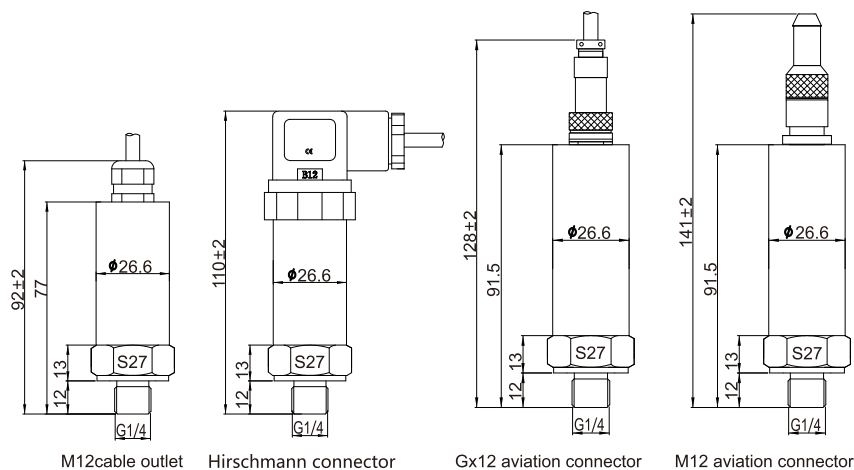
②:When the selected type is conventional digital display flat film pressure transmitter, the cable outlet mode is only large Hirschmann outlet, and the power supply voltage is all 12~30VDC.

Specification

General		Value			
Range	-100kPa...0~20kPa...35MPa				
Overload Pressure	1.5 times of the rated pressure				
Accuracy ^①	±0.5%F.S; ±1.0%F.S				
Stability	<0.5%F.S/year				
Working Temp	-20~85℃				
Storage Temp	-40~100℃				
Measured Medium	Gas or liquid compatible with 304 and 316L stainless steel. Fluorine rubber or Nitrile Rubber				
Flat-film pressure transmitter					
Electrical Properties	2-wired	3-wired			4-wired
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V	Rs485
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC	10~30VDC
Electrical Connection	DIN43650A(Big Hirschmannn),M12 waterproof outlet, M12 aviation connector(four cores), GX12 aviation connector (three/four cores)				
Explosion-proof digital display flat film pressure transmitter					
Electrical Properties	2-wired	3-wired		4-wired	
Output Signal	4~20mA	0~10V		Rs485	
Power Supply	10~36VDC	12~36VDC		10~36VDC	
Electrical Connection	M20waterproofoutlet				
Enclosure Protection	P54(GX12 aviation connector),IP65(DIN43650A,M12 waterproof outlet, M20waterproof outlet,M12 four-core aviation connector)				
Pressure Connection	G1/2				
Pressure Form	Gauge Pressure G/Absolute Pressure A				
Certification	RoHS. EU electrical safety standard CE				

①Measured at 25°C, including the comprehensive accuracy of linearity, repeatability and hysteresis.

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Dimension in : mm

LFT2800

Pressure Transmitter



LFT2800 pressure transmitter is widely used in the measurement of fluid medium pressure in test systems such as fire protection, water treatment, water supply systems, air compressors, and pneumatic device and factory automation. It has excellent anti-corrosion and anti-wear performance, adopts ASIC technology, MEMS technology, digital compensation, and can be applied in various complex environment.

LFT2800 Order Ref No.

LFT2800 0-60 B A4 0.5 D1 G 1.0
A B C D E F G

A Measurement Range: -100kPa...0~10kPa...60MPa

B Measurement Unit: K=kPa, P=psi, M=MPa, B=Bar

C Output Mode: A4=4~20mA (2-wired), V05=0.5~4.5V (3-wired), V0=0~5V (3-wired), V10=0~10V (3-wired), RS=RS-485 (4-wired)

D Accuracy: 0.25=0.25%F.S, 0.5=0.5%F.S

E Electrical Connection: D1=DIN43650A (Big Hirschmann), M=M12 (M12 waterproof outlet)

C3=GX12 Three-core aviation connector, C4=GX12 Four-core aviation connector, H=M12 Four-core aviation connector

F Pressure Connection: G=G1/4, G2=G1/2, N=NPT1/4, M=M20*1.5, R=R1/4, A=7/16-20UNF External thread

G Cable Length: 1.0=1m, 2.0=2m, 3.0=3m

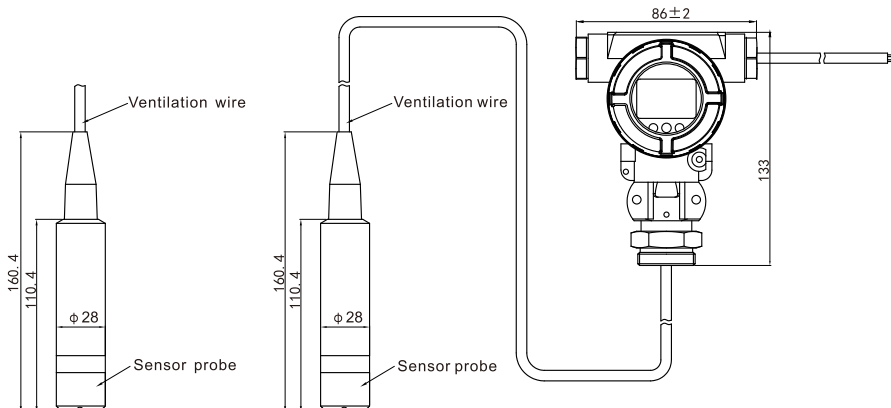
Specification

General	Value				
Measurement Range	-100kPa...0~5kPa...60MPa				
Overload pressure	1.5 times of the rated pressure				
Accuracy	±0.5%F.S (-100kPa...0~5kPa...60MPa)				
	±0.25%F.S (-100kPa...0~10kPa...60MPa)				
Stability	<0.5%F.S/year				
Working Temp	-20~85°C				
Storage Temp	-40~100°C				
Measured Medium	Gas or liquid compatible with 304 and 316L stainless steel, Fluorine rubber or Nitrile rubber				
Electrical Properties	2-wired(current)	3-wired(voltage)			4-wired
Output Signal	4~20mA	0.5~4.5V	0~5V	0~10V	RS485
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC	10~30VDC
Electrical Connection	DIN43650A (Big Hirschmann), M12 waterproof outlet, GX12 aviation connector (three-core/four-core), M12 four-core aviation connector				
Enclosure Protection	IP54 (GX12 aviation connector), IP65 (DIN43650A, M12 waterproof outlet, M12 four-core aviation connector)				
Pressure Connection	G1/4, NPT1/4, R1/4, G1/2, 7/16-20UNF, M20*1.5, M10*1, M14*1.5 etc				
Pressure Form	Gauge Pressure G/Absolute Pressure A				
Certification	RoHS, EU electrical safety standard CE				

① Measured at 25°C, including the comprehensive accuracy of linearity, repeatability and hysteresis

LFT3000

Liquid level
Pressure transmitter



LFT3000 liquid transmitter uses a high-performance pressure sensor as the measuring element to accurately measure the liquid level depth and convert it into a standard output signal through a special signal conditioning circuit to establish a linear correspondence between the output signal and the liquid depth, to achieve accurate measurement of liquid depth. The product has high precision, small size and convenient use. It can measure the liquid level height from the end of the transmitter to the liquid surface when it is directly put into the liquid. It is suitable for water level or liquid level measurement and control in the fields of petroleum, chemical industry, power plant, urban water supply, and hydrological exploration

Dimension in : mm

LFT3000 Order Ref No

LFT3000 0-200 M A4 0.5 M N T 1.0

A B C D E F G H

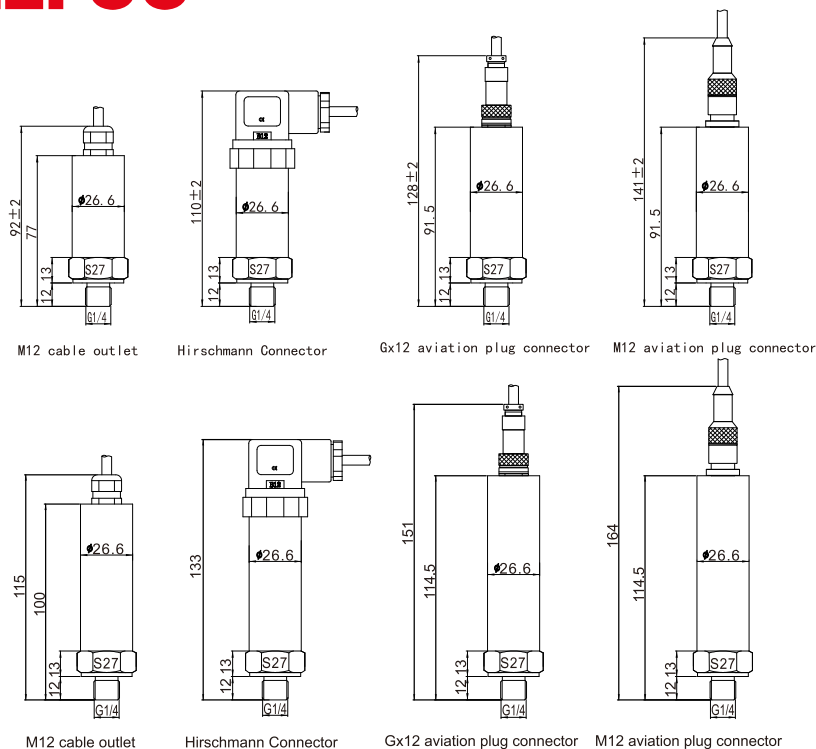
A Range	B Measurement Unit	C Output Mode	D Accuracy Grade	E Electrical Connection	F Display Mode	G Installation method	H Cable Length
0~0.5...200mH ₂ O	M=Meter CM = Centimeter	A4 = 4~20mA(2-wired) V05 = 0.5~4.5V(3-wired) V0 = 0~5V(3-wired) V10 = 0~10V(3-wired)	0.5 = 0.5%FS	M = Cable Outlet	N=Without display D2=Explosion-proof digital display M20=M20*1.5	T=Input type	1.0 = 1m 2.0 = 2m
RS = RS-485							

Specification

General	Value				
Measurement Range	0~0.5...200mH ₂ O				
Overload Pressure	1.5 times of rated pressure				
Accuracy ^①	±0.5%F.S				
Stability	<0.5%F.S/year				
Working Temp	-20~85℃				
Storage Temp	-40~100℃				
Measured Medium	Liquid compatible with 304/316L stainless steel,PEPVC,Fluorine rubber or Nitrile rubber				
Throw-in type Liquid Level Pressure Transmitter					
Electrical Performance	2-wired	3-wired Voltage			4-wired
Output Signal	4~20mA	0.5~4.5V	0~5V	0-10V	RS485
Power Supply	8~36VDC	4.75~5.25VDC	8~36VDC	12~36VDC	10~30VDC
Digital display throw-in type liquid level pressure transmitter					
Electrical Performance	2-wired	3-wired			4-wired
Output Signal	4~20mA	0-10V			RS485
Power Supply	10~36VDC	12~36VDC			10~36VDC
Electrical Connection	Cable outlet				
Pressure Connection	Throw-in type,M20*1.5Installation type				
Enclosure Protection	Ip68				
Pressure Form	Gauge Pressure G				
Certification	RoHS,EU electrical safety standard CE				

① Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis.

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Dimension in : mm

LFT3100 Order Ref No

LFT3100 0-60 M 0-100°C 2 A4 0.5 M G 1.0
A B C D E F G H I

A Pressure Range 0~10kPa...70MPa

B Measurement Unit K=kPa,P=psi,M=MPa,B=Bar

C Temperature TR=20~100°C

D Accuracy 2=2%F.S(Temperature Accuracy)

E Output Mode A4 =4~20mA(2-wired),V05=0.5~4.5V(3-wired),RS=RS-485(4-wired)

F Accuracy Grade 0.5 = 0.5%F.S

G Electrical Connection D1=DIN43650A(Big Hirschmann),M=M12(M12 waterproof cable outlet)

C3=GX12 three core aviation connector,C4=GX12 four core aviation connector, H=M12 four core aviation connector

H Pressure Connection G=G1/4,G2=G1/2,M1=M10*1,N=NPT1/4,M20=M20*1.5,M12=M12*1

I Cable Length:1.0 = 1m,2.0 = 2m,3.0 = 3m

LFT3100

Temperature and Pressure
Integrated transmitter



LFT3100 temperature and pressure integrated transmitter adopts advanced piezoresistive pressure sensor and PT-100 temperature sensor, which is converted into a standard output signal through a special signal conditioning circuit. It has the advantages of advanced temperature digital compensation, wide operating temperature range and full output signals. It is suitable for the monitoring of pressure and temperature in crude food and water treatment

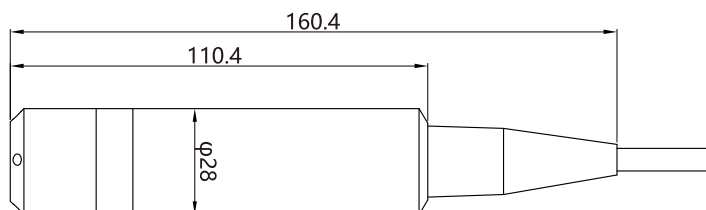
Specification

General	Value		
Measurement Range	0~10kPa ... 70MPa		
Temperature Range	-20~100°C(PT-100)		
Overload Pressure	1.5 times of the rated pressure		
Accuracy ^①	Pressure: ±0.5%F.S Temperature: ±2%FS		
Stability	<0.5%F.S/year		
Working Temp	-20~85°C		
Storage Temp	-40~100°C		
Measured Medium	Gas or Liquid Compatible with 304 or 316L Stainless Steel, Fluorine rubber or Nitrile rubber		
Electrical Performance	2-wired	3-wired	4-wired
Output Signal	4~20mA	0.5~4.5V	Rs485
Power Supply	10~30VDC	4.75~5.25VDC	10~30VDC
Electrical Connection	DIN43650A(Big hirschmann),M12waterproof outlet,GX12 aviation connector(three core / four core), M12 four core aviation connector		
Enclosure Protection	IP54(GX12 aviation connector),IP65(DIN43650A,M12 waterproof outlet, M12 four-coreaviation connector)		
Pressure Connection	G1/4,M12*1,M10*1,NPT1/4,G1/2,M20*1.5etc.		
Pressure Form	Gauge pressure G / Absolute pressure A		
Certification	RoHS,EU electrical safety standard CE		

①Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis.
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LFT3200

Throw-in Type Level&Temperature Pressure Transmitter



Dimension in : mm

LFT3200 temperature and liquid level integrated pressure transmitter adopts advanced piezoresistive pressure sensor and PT-100 temperature sensor, which is converted into standard output signal through special signal conditioning circuit, with advanced temperature digital compensation, wide operating temperature range, and full output signal. It is suitable for the monitoring of liquid level and temperature in crude oil, food and water treatment systems.

LFT3200 Order Ref No

LFT3200 0-200 M -20~100°C 2 A4 0.5 M T 1.0
A B C D E F G H I

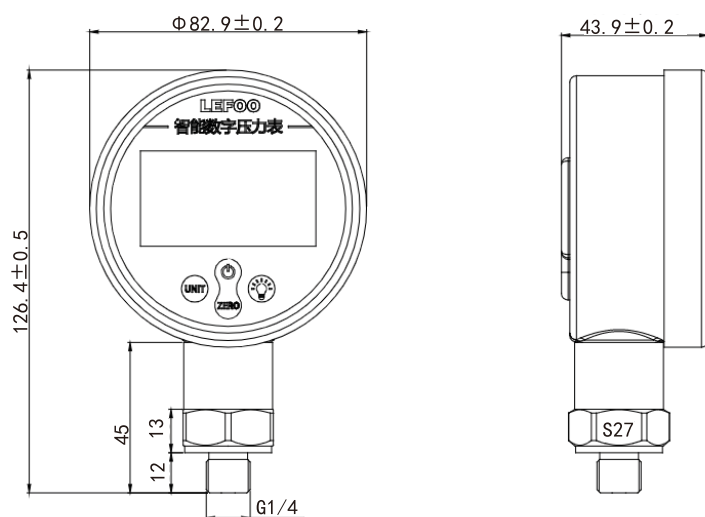
A Range	B Measurement Unit	C Temperature	D Accuracy	E Output Mode	F Accuracy Grade	G Electrical Connection	H Installation method	I Cable Length
0~1...200mH ₂ O	M=meter CM=centimeter	-20~100°C	2=2%FS (Temperature Accuracy)	A4 = 4~20mA(2-wired) V05 = 0.5~4.5V(3-wired)	0.5 = 0.5%FS	M = cable outlet	T=Inputtype	1.0 = 1m 2.0 = 2m 3.0 = 3m
RS = RS-485								

Specification

General	Value		
Range	0~1...200mH ₂ O		
Temperature range	-20~100°C,(PT-100)		
Overload Pressure	1. 5 Times of rated pressure		
Accuracy	Pressure:±0.5%F.S ^① Temperature : ±2%F.S		
Stability	<0.5%F.S/year		
Working Temp	-20~85°C		
Storage Temp	-40~100°C		
Measured Medium	Fluid compatible with 304 and 316L stainless steel, PE, PVC, Fluorine rubber or Nitrile rubber		
Electrical Performance	2-wired	3-wired voltage	4-wired
Output Signal	4~20mA	0.5~4.5V	RS485
Power Supply	10~30VDC	4.75~5.25VDC	10~30VDC
Electrical Connection	cable outlet		
Enclosure Protection	Ip68		
Pressure Connection	Throw-in type□M20*1.5Installation type		
Pressure Form	Gauge Pressure G		
Certification	RoHS,EU electrical safety standard CE		

①Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis.

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Dimension in : mm

LFT6100

Digital Pressure Gauge



LFT6100 digital pressure gauge adopts high-performance oil-filled diffusion silicon core, and the circuit part adopts 24-bit special AD processing chip and industrial group MCU, which has high measurement accuracy and good stability. Adopt low power consumption design, the working current is less than 2mA, and the shutdown current is less than 5uA. This product adopts high-quality 304 stainless steel shell and joints, which has good anti-shock performance. It can measure gas, water, oil and other media that are not corrosive to stainless steel. It is suitable for pressure measurement applications such as portable pressure measurement, equipment matching, and calibration equipment.

LFT6100 Order Ref No

LFT6100 0-10 B 0.25 N
A B C D

A Measurement Range	B Measurement Unit	C Accuracy Grade	D Pressure Connection
-100kPa...0~100kPa...60MPa	K = kPa	0.25 = $\pm 0.25\%F.S$	G = G1/4
	M = MPa	0.5 = $\pm 0.5\%F.S$	M = M20*1.5
	P = psi		N = NPT1/4
	B = Bar		G2 = G1/2

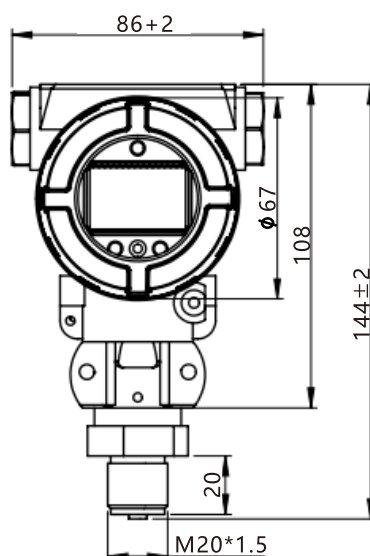
Specification

General	Value
Measurement Range	-100kPa...0~100kPa...60MPa
Overload Pressure	1.5 times of rated pressure
Accuracy ^①	$\pm 0.25\%F.S$
Stability	<0.25%F.S/year
Working Temp	-20~60°C
Storage Temp	-20~60°C
Measured Medium	Gas or Liquid Compatible with 304 or 316L Stainless Steel, Fluorine rubber or nitrile rubber
Power Supply	Powered by 2 AAA batteries
Current	working current. <2mA ; shutdown current <5uA
Pressure Connection	M20*1.5, G1/4, NPT1/4, G1/2 etc.
Pressure Form	Pressure Gauge G/Absolute Pressure A

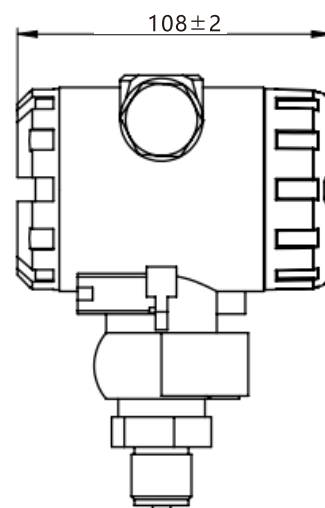
① Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis.

LFT6200

Explosion-proof
Pressure transmitter



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Dimension in : mm

LFT6200 pressure transmitter is an isolated explosion-proof product with high cost performance. Widely used in gas and liquid pressure detection, such as water, oil, mildly corrosive liquid and gas. The product adopts 304 stainless steel pressure head, the pressure core is selected from international famous brands, and the dedicated conversion circuit can easily calibrate its zero point and full scale. This product has the advantages of small drift, stable performance, reliable quality and reasonable structure.

LFT6200 Order Ref No

LFT6200 0-60 B A4 0.5 D M 1.0 N
A B C D E F G H

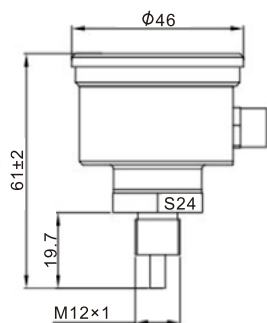
A Range	Measurement B Unit	C Output Mode	D Accuracy Grade	E Electrical Connection	F Pressure Connection	G Cable Length	H Explosion proof Property
-100kPa...0~10kPa...60MPa	K = kPa	A4 = 4~20mA(2-wired)	0.25 = 0.25%F.S	D = Cable Outlet	M = M20*1.5	1.0 = 1m	E = Explosion proof
	M = MPa	HART=4~20mA+HART(2-wired)	0.5 = 0.5%F.S		G2 = G1/2	2.0 = 2m	N = Non explosion proof
	P = psi	V10=0~10V(3-wired)				3.0 = 3m	
	B = Bar	RS = RS-485(4-wired)					

Specification

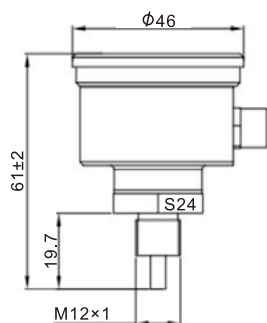
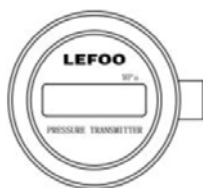
General	Value		
Pressure Range	-100kPa...0~10kPa...60MP		
Overload Pressure	1.5 times of rated pressure		
Accuracy ^①	±0.5% F.S(-100kPa...0~5kPa...60MPa)		
	±0.25%F.S(-100kPa...0~10kPa...60MPa)		
Stability	<0.5%F.S/year		
Working Temp	-20~80°C		
Storage Temp	-40~100°C		
Measured Medium	Gas or Liquid Compatible with 304 or 316L Stainless Steel, Fluorine rubber or Nitrile rubber		
Electrical Performance	2-wired 3-wired 4-wired		
Output Signal	4~20mA	4~20mA+HART	0~10VDC RS-485
Power Supply	10~36VDC 12~36VDC 10~36VDC		
Insulation	>100M Ω@500VDC		
Electric Strength	500VAC@60 second		
Electrical Connection	Waterproof cable outlet		
Enclosure Protection	Ip65		
Pressure Form	Gauge Pressure G/Absolute Pressure A		
Pressure Connection	M20*1.5,G1/2		

①Measured at 25°C with combined accuracy of linearity, repeatability and hysteresis

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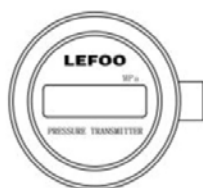


M12 connector



M12 connector

Dimension in : mm



LFT6700

Pressure Transmitter



LFT6700 is an intelligent digital pressure transmitter, suitable for real-time pressure monitoring and alarm display. Combined with the special sensor conditioning circuit, it can output the pressure signal of the standard MODBUSRTU protocol. The integrated stainless steel structure design and digital signal output have the characteristics of small size, small drift, stable performance and corrosion resistance. Suitable for pressure measurement and monitoring in fire control, petroleum, water, chemical, environmental control and other industries.

LFT6700 Order Ref No

LFT6700 0-10 M10 1.5
A B C

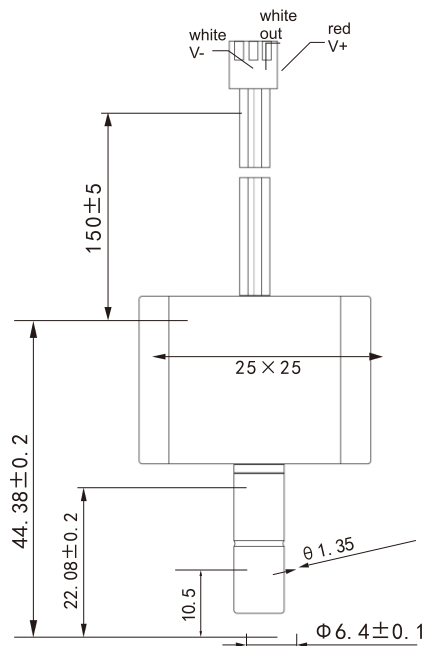
A Measurement Range	B Pressure Connection	C Electrical Connection
0~10...60MPa	M10x1	1.5=1.5m
	M12x1 with thimble(customized)	X=Customized
	NPT1/8	

Specification

General	Value
Measurement Range	0~10...60MPa
Overload Pressure	1.5 times of rated pressure
Burst Pressure	3.0 times of rated pressure(Max 100Mpa)
Accuracy	±1.0%F.S
Stability	<0.3%F.S/year
Working Temp	-10~60°C
Storage Temp	-20~70°C
Medium	Gas or liquid compatible with 304 stainless steel
Output Signal	RS-485
Power Supply	10~24VDC
Electrical Connection	M8 four-core straight head aviation plug
Protection Grade	IP67
Pressure Connection	M10*1,NPT1/8
Response Time	50ms
Pressure Form	Sealing Pressure S
Certification	EU electrical safety standards CE

LFT221

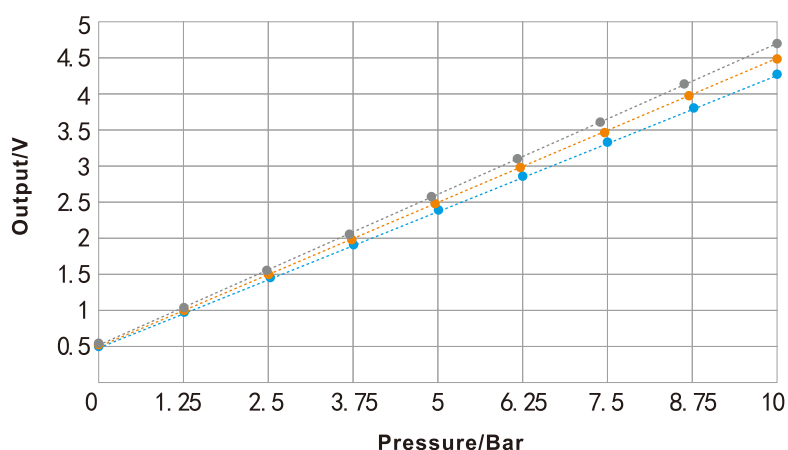
Water Pressure Transmitter



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Dimension in : mm

OUTPUT CHARACTERISTIC CURVE



LFT221 water pressure transmitter adopts plastic shell structure, high-precision pressure core, and proportional output voltage signal. This product is mainly used in the water treatment industry and has the characteristics of small size, light weight, compact structure and good stability.

- Voltage/4.75V
- Voltage/5V
- Voltage/5.25V

- ①4.75V power supply: $V_{out}=0.38 \cdot P+0.475$
- ②5V power supply: $V_{out}=0.4 \cdot P+0.5$
- ③5.25V power supply: $V_{out}=0.4 \cdot P+0.525$ Remark: P represents the current pressure, the unit is Bar

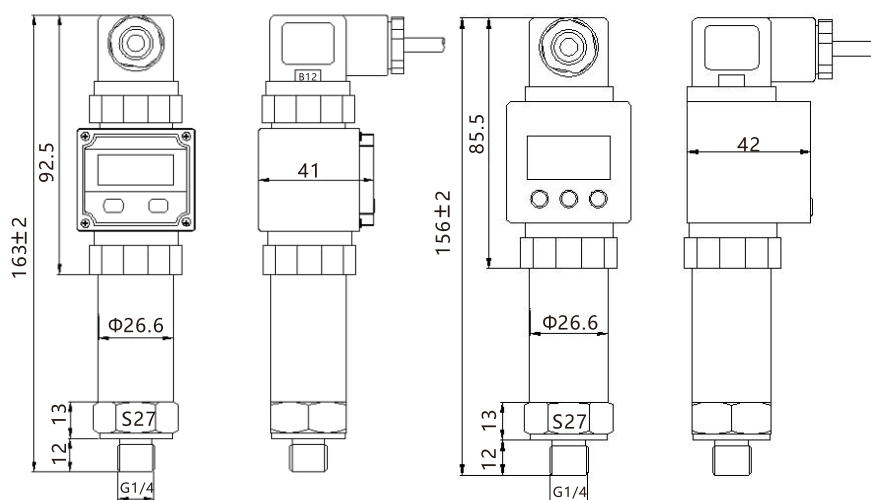
Specification

General	Value
Measurement Range	0-1MPa(Normal pressure section)
Overload Pressure	2 times of rated pressure
Burst Pressure	3 times of rated pressure
Accuracy	±2.0%F.S
Output Mode	Voltage type(3-wired)
Power Supply	4.75~5.25VDC
Output Signal	0.5~4.5V(Proportional output)
Working Temp	0°C ~ 60°C
Storage Temp	-20°C ~ 85°C
Medium	Various fluids without corrosion to PA66, ceramics, EPDM
Load Resistance	≥14.5kΩ
Electrical Connections	3 core 2.54mm spacing Terminal
Enclosure Protection	Ip65
Pressure Connection	1/4" PE pipe quick connector

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LFT6800

Digital Display
Pressure Transmitter



Current/Voltage Output

RS485 Output

Dimension in : mm



LFT6800 digital pressure transmitter adopts high-performance ceramic core or oil-filled silicone core, with advanced processing circuit and temperature compensation technology. Convert pressure changes into linear current, voltage or RS-485 signals. The product is small in size and easy to install. It adopts a digital display head and a stainless steel shell. It is suitable for measuring media such as gas and liquid which are compatible with the material in contact with it. and can monitor and display the current measured pressure value in real time.

LFT6800 Order Ref No

LFT6800 0-60 B A4 1.0 D1 G A 1.0
A B C D E F G H

A Measurement Range -100kPa...0~5kPa...60MPa Oil-filled silicone/-100kPa~0.3MPa...60MPa ceramic core

B Measurement Unit K = kPa M = MPa P = psi B = Bar

C Output Mode A4 = 4~20mA(2-wired) V05 = 0.5~4.5V(3-wired) RS = RS-485

D Accuracy Grade 0.5 = 0.5%F.S 1.0 = 1.0%F.S

E Electrical Connection D1= DIN43650A(Big Hirschmann)

F Pressure Connection G = G1/4, G2= G1/2, N = NPT1/4, R = R1/4, M10=M10*1, M20=M20*1.5, M12=M12*1

G Core Specification A=Ceramic Core, B=Oil-filled silicone core

H Cable Length 1.0 = 1m

Specification

General	Value				
Measurement Range	-100kPa...0~5kPa...60MPa Oil-filled silicone			-100kPa~0.3MPa...60MPa ceramic core	
Overload Pressure	1.5times of rated pressure			1.5times of rated pressure	
Accuracy ^①	±1.0%F.S; ±0.5%F.S			±1.0%F.S	
Stability	<0.5%F.S/year			<0.5%F.S/year	
Display Mode	4 digit LCD(current,voltage),5 digit LCD(RS485)			4 digit LCD	
Working Temp	-20~75℃			-20~75℃	
Storage Temp	-30~80℃			-30~80℃	
Measured Medium	Gas and liquid compatible with SS304 andSS316L. Fluorine rubber or Nitrile rubber			Gas or liquid compatible with 1Cr18Ni9TiSS304, Fluorine rubber or Nitrile rubber	
Electrical Performance	2-wired	3-wired	4-wired	2-wired	3-wired
Output Signal	4~20mA	0~10V	Rs485	4~20mA	0~10V
Power Supply	12~30VDC	12~30VDC	12~30VDC	12~30VDC	12~30VDC
Electrical Connection	Big Hirschmann				
Enclosure Protection	Ip54				
Pressure Form	Gauge Pressure G/Absolute Pressur A			Gauge Pressure G	
Pressure Connection	G1/4,NPT1/4,R1/4,M12*1,M10*1,M20*1.5,G1/2 etc.				

①Measured at 25°C, including the combined accuracy of continuity, repeatability and hysteresis.

LFT700

Pressure Transmitter



LFT700 pressure transmitter is used to measure the liquid level density and pressure of liquid, gas or steam, then convert it to 4~20mA DC output signal. The transmitter can be operated locally with three buttons, or remotely operated by a universal hand operator, configuration software, and mobile phone APP. It can perform display and configuration adjustments without affecting the output signal of 4~20mA DC.

STANDARD SPECIFICATIONS

Standard zero point as the Reference Calibration Range, stainless steel 316L diaphragm, silicone oil as filling liquid.

PERFORMANCE SPECIFICATIONS

The overall performance includes but is not limited to [reference accuracy], [environmental temperature impact] and comprehensive error of other impact.

- Typical accuracy: $\pm 0.075\%$ of the upper limit of the range
- Annual stability: $\pm 0.2\%$ of the upper limit of the range

1)Reference Accuracy of Range Adjustment

Includes linearity from zero, hysteresis and repeatability			
Linear Output Accuracy	TD≤10	±0.075%	Nominal range 6KPa, 40KPa, 250KPa, 1MPa, 3MPa, 10MPa
	10 < TD≤100	±0.0075TD%	
Note: TD = Turn down URV ≥ LRV . TD=URL/ URV URV ≤ LRV . TD=URL/ LRV			

2)Influence of Ambient Temperature

The accuracy of the range below 6Kpa is 0.075% in the normal temperature range, and the accuracy of the full temperature range of -20~70°C is 0.15%.

3)Power Influence

When the power supply voltage changes within 12~36V DC, the change of zero point and range does not exceed $\pm 0.005\%$ of the upper limit of the range/V, which can be ignored.

FUNCTIONAL SPECIFICATIONS

1)Range Selection

Within the range of the upper and lower limits, the turndown ratio can be adjusted to select the range. For example, the upper and lower limits are -40~40kpa. At this time, choose to adjust the turndown ratio to 10, and choose to output 0~4Kpa, or -4~4kpa. In order to ensure the accuracy, the turndown ratio should be as small as possible, generally within 10, too large will affect the accuracy.

2)Zero Setting

Zero point and range can be adjusted to any value within the measurement range in the table, the calibration range must $\geq$ the minimum range.

3)Impact of Installation Position

Install at any position, the maximum does not exceed 400Pa can be corrected by clearing.

4)Range and Scope

Gauge Pressure

RANGE/ URL/LRL		KPa	TURNDOWN RATIO
B	Range	0.2 ~ 6	1~30
	URL/LRL	-6 ~ 6	
C	Range	0.4 ~ 40	1~100
	URL/LRL	-40 ~ 40	
D	Range	2.5 ~ 250	1~100
	URL/LRL	-100 ~ 250	
E	Range	10 ~ 1000	1~100
	URL/LRL	-100 ~ 1000	
F	Range	30 ~ 3000	1~100
	URL/LRL	-100 ~ 3000	
G	Range	100 ~ 10000	1~100
	URL/LRL	-100 ~ 10000	

5)Output

SIGNAL	TYPE	OUTPUT
4~20mA	linear	Two-wire
4~20mA+HART	linear	Two-wire
RS485	linear	Four-wire

6)Alarm Current

- Low alarm mode(minimum): 3.8mA.
- High alarm mode(maximum) : 20.8mA .
- No alarm mode(Hold) : Maintain the high-alarm mode of effective current value before failure.
- Alarm current standard setting : high-alarm mode.

7)Response Time

- The total damping constant time; equal to the sum of the damping time of electronic circuit components and the sensor case.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing case damping time: $\leq 0.2S$.
- Power-on start-up time after power failure: $\leq 5S$.
- Data recovery to normal use time: $\leq 2S$.

8)Ambient Temperature

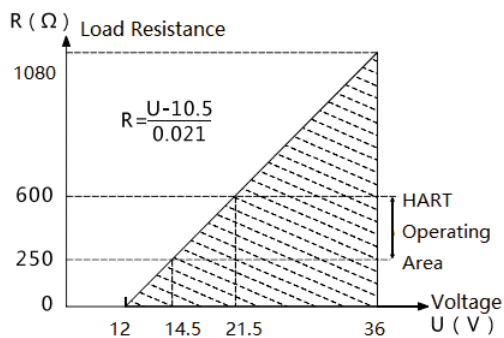
ITEM	OPERATING CONDITIONS
Working temperature	-20~70°C with display
Storage temperature	-40~85°C
Measuring medium temperature range	Silicon oil filled sensor:-40~120°C
Working humidity	5-100%RH@40°C
Production grade	IP65
Dangerous place	ExdIICT6

INSTALLATION

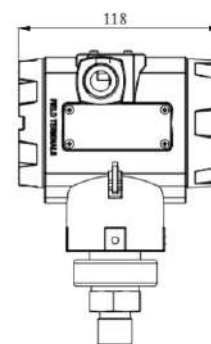
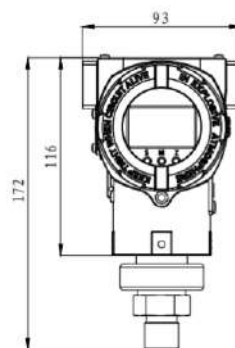
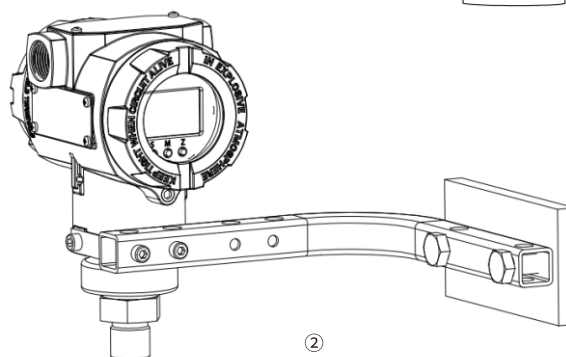
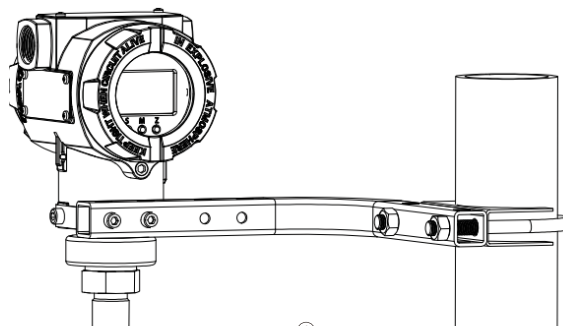
1)Power Supply and Load Conditions

ITEM	OPERATING CONDITIONS
Standard/flameproof	14.5~36VDC. The load resistance during communication is 250Ω
RS485	12-36VDC

LEFOO



1) Dimension (mm)



3

2) Electronic Connection

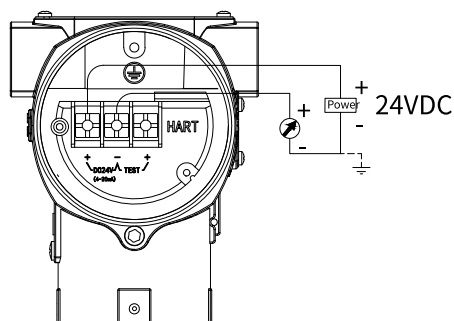
TYPE	DIRECTIONS
Electrical connection	Aluminum alloy junction box, two outlets with internal thread M20*1.5, the main body is light blue, and the cover is white.
Outlet protection	One end is equipped with M20*1.5 waterproof connector, the other end is equipped with plug PVC material, applicable wire diameter 6-8 mm protection grade IP65.
	Explosion-proof configuration, one end is equipped with NPT1/2 female thread, the other end is equipped with plug, stainless steel material applicable wire diameter 6-8 mm, protection grade IP65.
	Explosion-proof configuration, one end is equipped with M20*1.5 female thread, the other end is equipped with plug, stainless steel material, applicable wire diameter 6-8 mm, protection grade IP65.

PHYSICAL SPECIFICATIONS

Sensor case	Stainless steel 316L
Diaphragm	Stainless steel 316L, Hastelloy, Tantalum
Process connection	Stainless steel 304, stainless steel 316L
Thread specification	M20*1.5, G1/2, NPTF1/2, others
Transmitter shell	Aluminum alloy material, surface sprayed with epoxy resin
Shell seal	NBR
Nameplate	Stainless steel 304

Weight: 1.6kg (None: LCD display, mounting bracket, process connection)

ELECTRICAL CONNECTION



Note: The function of the shortcut interface is equivalent to the signal terminal.

DETAILED MODEL SELECTION

Model Selection Table

Detailed Model Selection													Provide fast delivery
Model LFT700-G													
1	Measuring range	B	0-200Pa~6KPa(0-20~600mmH ₂ O)/(0-2~60mbar)										※
		C	0-400Pa~40KPa(0-40~4000mmH ₂ O)/(0-4~400mbar)										※
		D	0-2.5KPa~250KPa(0-0.25~25mH ₂ O)/(0-25~2500mbar)										※
		E	0-10KPa~1MPa(0-1~100mH ₂ O)/(0-0.1~10bar)										※
		F	0-30KPa~3MPa(0-3~300mH ₂ O)/(0-0.3~30bar)										※
		G	0-100KPa~10MPa(0-10~1000mH ₂ O)/(0-1~100bar)										△
2	Diaphragm material	S	316L										※
		H	Hastelloy C										
		T	Tantalum										
3	Filling liquid		D	Silicone oil									※
4	Electrical connection			1	M20*1.5 female thread, PVC								※
				2	M20*1.5 female thread, stainless steel								※
				3	1/2NPT female thread, PVC								
				4	1/2NPT female thread, stainless steel								
5	Output			N	4~20mA								※
				J	4~20mA+HART								※
				F	RS485								※
6	Process connection			M	M20*1.5 male thread								※
				G	G1/2 male thread								※
				N	NPT1/2 male thread								※
				A	NPT1/2 male thread								※
				Y	others								△
7	Mounting brackets				N	No stand						※	
					B4	Pipe bend bracket (carbon steel)						※	
					B5	Flat Bend Bracket (Carbon Steel)						※	
8	Explosion-proof treatment				N	Normal type						※	
					D	Secondary Explosive ExdIICT6							
9	Display				M5	With display						※	
					N	No display						※	
10	Additional requirements				P	M20*1.5 female thread with pressure welding head							
					N	Connector material is 304, optional 316L							
					K	Degreasing and cleaning treatment							
					L	Hanging number plate							
					H	Lightning protection (transient voltage resistance)							
					E	English nameplate							
					V2	Two valve group							
LFT700-G		C	S	D	1	J	M	N	N	M5			
※ means the delivery speed is fast, no ※ means the delivery time is longer, △ means it needs to be customized													

LEFOO

LFT710

Smart DP Transmitter



LFT710 Differential Pressure Transmitter uses single crystal silicon sensor chip which adopts German advanced MEMS technology. It has built-in temperature compensation element and extremely high measurement accuracy and long-term stability over a wide range of static pressure and temperature variations. It can measure level, density, pressure of liquid, gas and steam. It is widely used in industrial process control, automated manufacturing, aerospace automotive and marine petroleum and petrochemical, electronic power, medical and health and many other fields.

LFT710 can accurately measure differential pressure and convert it into 4-20 mA DC output signal and can be operated locally through three buttons, and remotely operated by a general-purpose communicator, configuration software, and mobile phone APP, to perform display and configuration adjustment without affecting the 4-20 mA DC output signal.

STANDARD SPECIFICATIONS

Standard zero point as the Reference Calibration Range, stainless steel 316L diaphragm, silicone oil as filling liquid.

PERFORMANCE SPECIFICATIONS

The overall performance includes, but not limited to, the combined error of Reference Accuracy, Static Pressure Effect, Ambient Temperature Effect and other effects.

- Typical accuracy: $\pm 0.075\%$ of the upper limit of the range
- Annual stability: $\pm 0.2\%$ of the upper limit of the range

1)Reference accuracy of range adjustment

Includes linearity from zero, hysteresis and repeatability			
Linear Output Accuracy	TD≤10	±0.075%	Standard range: 6KPa, 40KPa, 250KPa, 1MPa, 3MPa
	10<TD≤100	±0.0075TD%	
Note: TD = Turn down URV ≥ LRV . TD=URL/ URV URV ≤ LRV . TD=URL/ LRV			

2)Static Pressure Impact

Zero impact	$\pm 0.15TD\%$ Upper range limit/10MPa
Full scale effect	$\pm 0.2TD\%$ Upper range limit/10MPa

3)Ambient Temperature Influence of range below 6KPa

Range	Temperature	Accuracy
Below 6 KPa	Normal Temp range	0.075%
	-20~70°C Temp range	0.15%

4)Voltage Impact

When the power supply voltage varies within 12~36V DC, the variation of zero point and range is not exceed $\pm 0.005\%$ of the upper limit range /V, which can be ignored.

FUNCTIONAL SPECIFICATIONS

1)Range and Scope

Range/ URL/LRL		KPa	TD
B	Range	0.2 ~ 6	1 ~ 30
	URL/LRL	-6 ~ 6	
C	Range	0.4 ~ 40	1 ~ 100
	URL/LRL	-40 ~ 40	
D	Range	2.5 ~ 250	1 ~ 100
	URL/LRL	-250 ~ 250	
E	Range	20 ~ 1000	1 ~ 100
	URL/LRL	-500 ~ 1000	
F	Range	30 ~ 3000	1 ~ 100
	URL/LRL	-500 ~ 3000	

2)Range Limits

Range can be adjusted by turn down adjustment within URL and LRL. Such as for URL/LRL -40 ~ 40 kPa, TD=10, range can be 0 ~ 4kPa or -4 ~ 4kPa. Turn down should be as low as possible to ensure accuracy. In general, turn down is within 10, too big will affect accuracy.

3)Zero Point Setting

Zero and span can be adjusted to any value within the measurement range in the table, as long as calibration range is not less than minimum range.

4)Installation Position Influence

Installation position influence does not exceed 150 Pa, and can be corrected by the reset operation.

5)Output

SIGNAL	TYPE	ELECTRICAL PERFORMANCE
4~20mA	Linear	Two Wire
4~20mA+HART	Linear	Two Wire
RS485	Linear	Four Wire

6)Alarm current

Low report mode (Minimum) : 3.8 mA.

High report mode (maximum) : 20.8 mA.

No report mode (hold) : keep the effective current value before the fault. Standard setting of alarm current: high alarm mode.

7)Response time

- Total damping constant time is equal to the sum of the damping time constants of the electronic circuit components and the sensing diaphragm.
- Damping time of electronic circuit components: adjustable with in 0-60S.
- Sensing diaphragm damping time $\leq 0.2S$.
- Power-on startup time after power-off $\leq 5S$.
- Data recovery to normal usage time $\leq 2S$.

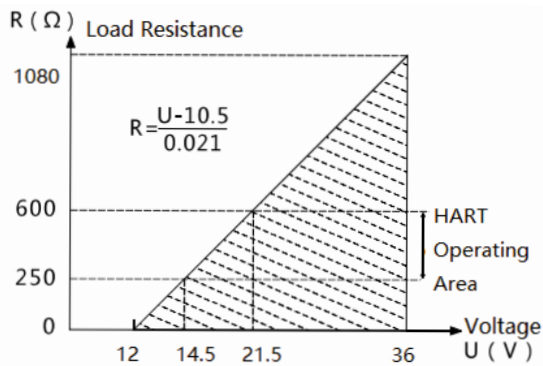
8)Ambient temperature

ITEM	CONDITIONS
Operating temperature	-20~70°C with display
Storage temperature	-40~85°C
Medium temperature	Silicone oil sensor: -40~120°C
Humidity range	5-100%RH@40°C
Protection class	IP65
Dangerous situation	ExdIICT6

INSTALLATION

1) Voltage and Load Conditions

ITEM	CONDITIONS
Standard/ Isolated Explosion Proof	14.5~36VDC communication load: 250~600Ω
RS485	12-36VDC



2) Electrical connection

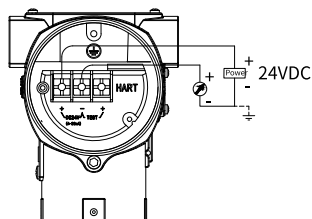
ITEM	SPECIFICATION
Electrical connection	Junction box is Aluminum alloy with two outlets M20 *1.5 Female. Main body is light blue. Shell cover is white.
Outlet protection	One is M20*1.5 waterproof connector, the other is plug, made of PVC. It is suit for φ 6-8 mm with IP65.
	Explosion-proof configuration One is NPT1/2 female, the other is plug, made of stainless steel. It is suit for φ 6-8 mm with IP65.
	Explosion-proof configuration One is M20*1.5 waterproof connector, the other is plug, made of stainless steel. It is suit for φ 6-8 mm with IP65.

PHYSICAL SPECIFICATIONS

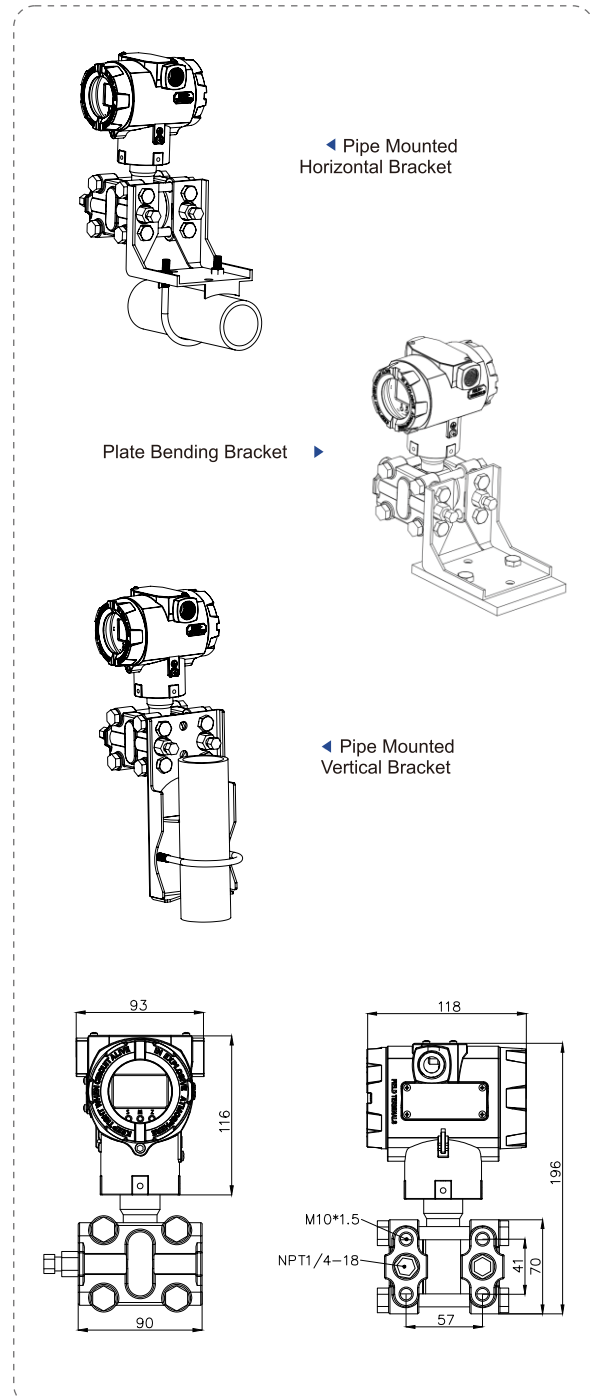
Diaphragm shell	Stainless steel 316L
Diaphragm	316L, Hastelloy, Tantalum
Process flange	Stainless steel 304, Stainless steel 316L
Nuts and Bolts	Stainless steel (A4), Color zinc
Sealing ring	NBR, FKM, EPDM
Transmitter shell	Aluminum alloy
Shell seal ring	NBR
Name plate	Stainless steel 304

Weight: 3.3 kg(Without mounting brackets and process connection)

ELECTRICAL CONNECTION DIAGRAM



1) Dimension(mm)



Note: The shortcut interface is functionally equivalent to the signal terminal.

Model and Specification Code Table

1) Selection table

Model and Specification Code Table															Provide fast delivery
Model LFT710-DP															
1	Range	B	0-200Pa~6KPa(0-20~600mmH2O)/(0-2~60mbar)												※
		C	0-400Pa~40KPa(0-40~4000mmH2O)/(0-4~400mbar)												※
		D	0-2.5KPa~250KPa(0-0.25~25mH2O)/(0-25~2500mbar)												※
		E	0-10KPa~1MPa(0-1~100mH2O)/(0-0.1~10bar)												※
		F	0-30KPa~3MPa(0-3~300mH2O)/(0-0.3~30bar)												※
2	Diaphragm material	S	316L												※
		H	Hastelloy C												
		T	Tantalum												
3	Filling fluid	D	Silicone oil												※
4	Electrical connection	1	M20*1.5 Female, PVC												※
		2	M20*1.5 Female, Stainless steel												※
		3	1/2 NPT Female, PVC												
		4	1/2 NPT Female, Stainless steel												
5	Output	N	4~20mA												※
		J	4~20mA+HART												※
		F	RS485												※
6	Process connector	N	Without(NPT 1/4 female thread on chamber flange)												※
		A	Back welded connector and M20*1.5 male												※
		B	Oval Flange connector: NPT1/2 Female												△
		C	T type: M20*1.5 male and back welded connector												△
7	Sealing ring	N	NBR												※
		D	FKM												※
		I	EPDM												※
8	Mounting bracket	B1	Plate Bending Bracket(Carbon Steel)												※
		B2	Tube Bending Bracket(Carbon Steel)												△
		B3	Tube Flat Bracket(Carbon Steel)												△
		B5	Plate Bending Bracket(Stainless steel)												△
		B6	Tube Bending Bracket(Stainless steel)												△
		B7	Tube Flat Bracket(Stainless steel)												△
		N	Without												※
9	Explosion-proof treatment	N	General												※
		D	ExdIICT6												
10	Display	M5	With												※
		N	Without												※
11	Additional conditions	P	M20*1.5 male with welded connector												
		N	Connection parts is made of SS304,and SS316L is optional.												
		K	Degreasing cleaning treatment												
		L	Hanging number plate												
		H	Lightning protection (withstand transient voltage)												
		E	English Nameplate												
		V3	Three valve block												
V5	Five valve block														
LFT710-DP		C	S	D	1	J	A	D	B1	D	M5				
※ means shorter lead time. Without ※ means longer lead time. △ means need to customize.															

LFT720A

Flange-mounted DP Transmitter



LFT720 Flange-mounted Transmitter is composed of LFT710 Differential Pressure Transmitter and a welded liquid level flange. Between the flange and the sensor, silicon oil and other filling fluids are used to transmit pressure, to prevent the measured medium from passing through the impulse pipe then impact the measurement. The impact of the measured medium pass through the impulse pipe includes: crystallization, solidification, vaporization (boiling), condensation, fractionation (severe change) and etc. The Transmitter is used to measure the liquid level, flow and pressure of liquid, gas or steam, and then convert it into 4~20mA signal output. The working principle of the LFT720 Flange-mounted Transmitter is the same as LFT710 Differential Pressure Transmitter except that the pressure transmission path on the positive pressure side is slightly different, that is the pressure acting on the high-pressure side first passes through the diaphragm of the liquid level flange and the filling liquid, and then pass through the transmitter body, and finally reach the high pressure side of the measuring sensor.

SPECIFICATION

The range is adjusted based on the standard zero point. The diaphragm is stainless steel 316L, and the filling liquid is silicone oil.

1)Reference accuracy of range adjustment

Includes linearity, hysteresis and repeatability from zero.			
Linear Output Accuracy	TD≤10	±0.075%	Nominal range: 40KPa, 250KPa 1MPa, 3MPa
	10<TD≤100	±0.0075TD%	
Note: TD = Turn down URV ≥ LRV . TD=URL/ URV URV ≤ LRV . TD=URL/ LRV			

2)Power Impact

When the power supply voltage changes within 12 ~ 36V DC, the change of zero point and range does not exceed ±0.005% of the upper limit of the range/V, which can be ignored.

FUNCTIONAL SPECIFICATIONS

1)Range Selection

Within the range of the upper and lower limits, the TD value can be adjusted within the allowable range to select the range. For example, the upper and lower limits are -40~40kpa. At this time, choose to adjust the TD value to 10, and choose to output 0~4Kpa, or -4~4kpa. In order to ensure the accuracy, the TD value should be as small as possible, generally within 10, too large will affect the accuracy.

2)Range and upper&lower limits

RANGE/ URL/LRL		KPa	TURN DOWN
C	range	1 ~ 40	1~40
	URL/LRL	-40 ~ 40	
D	range	2.5 ~ 250	1~100
	URL/LRL	-250 ~ 250	
E	range	10 ~ 1000	1~100
	URL/LRL	-500 ~ 1000	
F	range	30 ~ 3000	1~100
	URL/LRL	-500 ~ 3000	

3)Zero Setting

Zero point and range can be adjusted to any value within the measuring range in the table, as long as: calibration range ≥ minimum range

4)Installation position influence

It can be installed at any position through the liquid level flange. The best state is to keep the process flange in a vertical state. The offset caused by the position deviation can be corrected by clearing the operation.

5)Output

SIGNAL	TYPE	OUTPUT METHOD
4~20mA	linear	Two-wire
4~20mA+HART	linear	Two-wire

6)Alarm Current

- Low alarm model (Min):3.8mA.
- High alarm mode(Max):20.8mA.
- Alarm current standard setting: high alarm mode.
- Non-alarm mode (maintain): maintain the current practical value before the fault.

7)Response time

- The total damping constant time equal to the sum of the damping time constant of the electronic circuit components and the sensing bellows.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing bellows damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S.
- Data recovery to normal usage time: ≤2S.

8)Environment Temperature

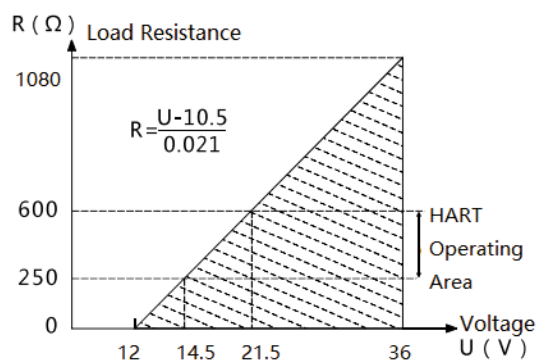
ITEM	WORKING CONDITION
Ambient temperature range	-20~70℃ with display
Storage temperature range	-40~85℃
Measuring medium temperature range	Silicone oil filled sensor: -40~120℃
Operating environment humidity range	5-100%RH@40℃
Degree of protection	IP65
Dangerous place	ExdIICT6

INSTALLATION

1)Power Supply and Load Conditions

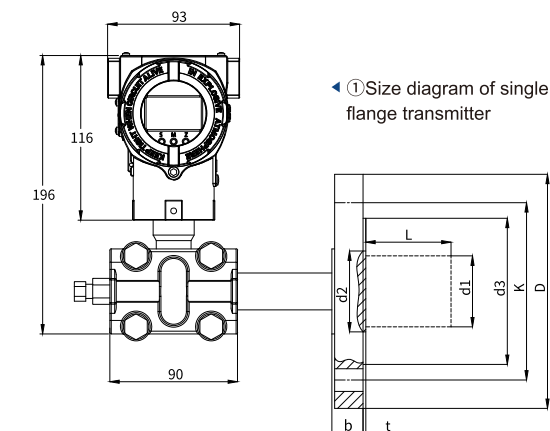
ITEM	WORKING CONDITION
Standard/ flameproof	14.5~36VDC, the load resistance is 250~600Ω during communication
RS485	12-36VDC

LEFOO

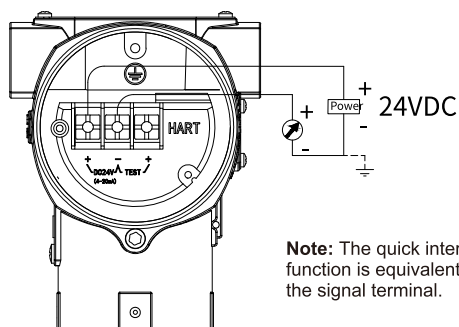


2) Electrical Connections

TYPE	INSTRUCTION
Electrical connections	Aluminum alloy junction box and two outlets in M20*1.5 female. The body is light blue, and the cover is white.
Outlet protection	One end is an M20*1.5 waterproof connector, and the other end is a plug PVC material, applicable wire diameter 6-8mm, protection grade IP65.
	In the explosion-proof configuration one end is NPT1/2 female, and the other end is a plug, stainless steel material, applicable wire diameter of 6-8mm, and protection grade IP65.
	In the explosion-proof configuration one end is M20*1.5 female, and the other end is a plug, stainless steel material, applicable wire diameter 6-8mm, protection grade IP65.



ELECTRICAL CONNECTION



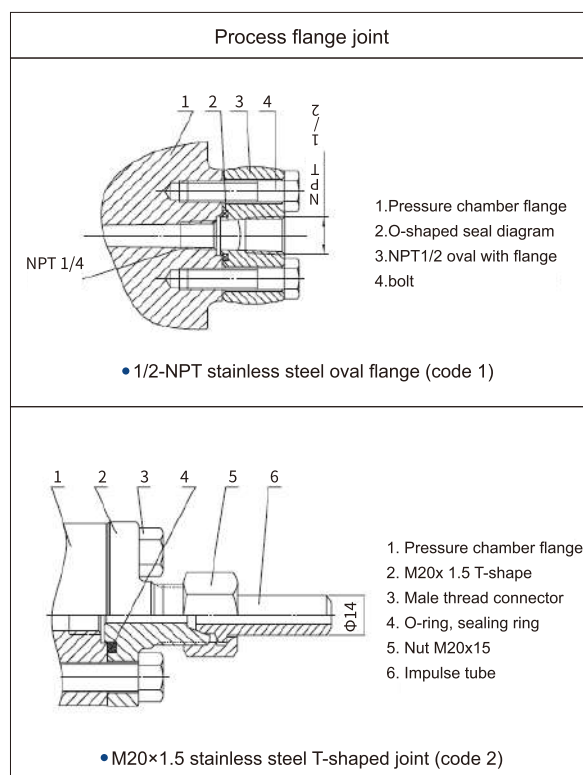
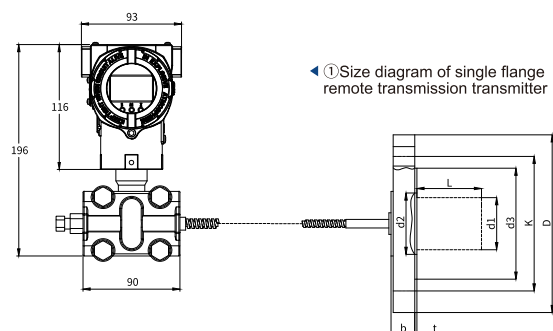
PROCESS CONNECTION DESCRIPTION

PHYSICAL SPECIFICATIONS

Measuring bellows	316L stainless steel
Diaphragm	316L, Hastelloy, Tantalum, FEP, PFA PTFE coating
Process flange	SS304, SS316L
Nuts and bolts	Stainless steel (A4), color zinc
Sealing ring	NBR, FKM, EPDM
Transmitter housing	Aluminum alloy
Housing seal ring	NBR
Nameplate	304 stainless steel

Weight: ①DN50/2: 7~10Kg; ②DN80/3: 8~11Kg;
③DN100/4: 9~12Kg.

1) Dimensions(mm)



DIAPHRAGM SEAL SELECTION GUIDE

				
Seal type	Flat(ring connection surface connection)	Flange Remote Seals(ring connection surface connection)	Extended flange connection	Threaded Remote Seals
Common types of applications and services	General application	General application ,Smaller process connection	Insulation process	Threaded connections for high temperature applications
Process connection size	2inchDN50 3inchDN80 4inchDN100	1inchDN25 1½inchDN40 2inchDN50 3inchDN80 4inchDN100	3inchDN80 4inchDN100	NPT1/2
Flange pressure rating or maximum ultimate working pressure	Grade150 Grade300 Grade600 PN40 PN64(63) PN100 No Flange(The maximum ultimate working pressure is 2000 PSI)	Grade150 Grade300 Grade600 PN16 PN40 PN64 PN100	Grade150 Grade300 Grade600 PN10/16 PN40 PN64 PN100	2500PSI
Diaphragm and wetted parts material	316 stainless steel Hastelloy C Tantalum 304 stainless steel	316 stainless steel Hastelloy C Tantalum 304 stainless steel	316 stainless steel 304 stainless steel	316 stainless steel Hastelloy C Tantalum
Lower set material	316 stainless steel Hastelloy C carbon steel 304 stainless steel	316 stainless steel Hastelloy C carbon steel 304 stainless steel	Not applicable	316 stainless steel Hastelloy C carbon steel 304 stainless steel
Options	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon

MODEL AND SPECIFICATION CODE LIST

1. Differential pressure single flange (selection)

Model and specification code list										Delivery
Differential pressure transmitter selection LFT720-										
1	Range	C	0-1KPa~40KPa(0-100~4000mmH ₂ O)/(0-10~400mbar)							
		D	0-2.5KPa~250KPa(0-0.25~25mH ₂ O)/(0-25~2500mbar)							
		E	0-10KPa~1MPa(0-1~100mH ₂ O)/(0-0.1~10bar)							
		F	0-30KPa~3MPa(0-3~300mH ₂ O)/(0-0.3~30bar)							
2	Diaphragm material	S	316L							
		H	Hastelloy C (insert cylinder does not have this option)							
		T	Tantalum (insert barrel does not have this option)							
3	Process Fill Fluid	D	Normal temperature silicone oil(-40~205℃)							
		C	High temperature silicone oil(0~315℃)							
4	Electrical Interface	1	M20*1.5 Female thread,PVC							
		2	M20*1.5 Female thread,stainless steel							
		3	1/2NPT Female thread,PVC							
		4	1/2NPT Female thread,stainless steel							
5	Flange Standard	N	HG-T20592-2009(Steel pipe flange PN series) (Quoting European DIN system standard)							
		J	HG-T20615-2009(Steel pipe flange Class series) (refer to American ANSI system standard)							
		F	Other Flange Standards							
6	Flange Size	3	DN50				2inch			
		4	DN80				3inch			
		5	DN100				3inch			
		6	OTHER							
7	Nominal Pressure Rating	1	PN2.5、PN6							
		2	PN10、PN16				Class150(1b)			
		3	PN25、PN40				Class300(1b)			
		Y	Other							
8	Insertion Barrel Extension Length	0	0(without insert barrel))							
		2	50mm							
		4	100mm							
		6	150mm							
		8	200mm							
		Y	special requirements							
9	Explosion-Proof Treatment	N	normal type							
		D	Flameproof ExdIICT6							
10	Display	M5	with display							
		N	no display							
11	Additional Requirements	P	The material of the chamber flange is 304, 316L is optional							
		N	Bolts and nuts are made of colored zinc, stainless steel is optional							
		K	Degreasing and cleaning treatment							
		L	Hanging number plate							
		H	Lightning protection (transient voltage resistance)							
		E	English nameplate							

2. Differential pressure double flange (option)

Model and specification code list										Delivery
Differential pressure transmitter selection LFT720-										
1	Range	C	0-4KPa~40KPa(0-400~4000mmH ₂ O)/(0-40~400mbar)							
		D	0-5KPa~250KPa(0-0.5~25mH ₂ O)/(0-50~2500mbar)							
		E	0-100KPa~1MPa(0-10~100mH ₂ O)/(0-1~10bar)							
2	Diaphragm material	S	316L							
		H	Hastelloy C (insert cylinder does not have this option)							
		T	Tantalum (insert barrel does not have this option)							
		Y	special requirements							
3	Process Fill Fluid	D	Normal temperature silicone oil(-40~205℃)							
		C	High temperature silicone oil(0~315℃)							
4	Electrical Interface	1	M20*1.5 Female thread,PVC							
		2	M20*1.5 Female thread,stainless steel							
		3	1/2NPT Female thread,PVC							
		4	1/2NPT Female thread,stainless steel							
5	Flange Standard	N	HG-T20592-2009(Steel pipe flange PN series) (Quoting European DIN system standard)							
		J	HG-T20615-2009(Steel pipe flange Class series) (refer to American ANSI system standard)							
		F	Other Flange Standards							
6	Flange Type	P	Flat type (only DN50, 2 inches and above)							
		R	Flange Type							
		E	Insert barrel type (only DN80, 2 inches and above)							
7	Flange Size	1	DN25				1Inch			
		2	DN40				1½Inch			
		3	DN50				2Inch			
		4	DN80				3Inch			
		5	DN100				4Inch			
		6	OTHER							
8	Nominal pressure rating	1	PN2.5、PN6							
		2	PN10、PN16				Class150(1b)			
		3	PN25、PN40				Class300(1b)			
		Y	special requirements							
9	Insertion barrel extension length	0	0(without insert cartridge)							
		2	50mm							
		4	100mm							
		6	150mm							
		8	200mm							
		Y	special requirements							
10	High pressure H end low pressure L end capillary length		The length of the capillary is from 1 to 10m, represented by (Example: 4m, 04)							
			The length of the capillary is from 1 to 10m, represented by (Example: 4m, 04)							
11	Explosion-proof treatment	N	Ordinary type							
		D	Exproof ExdIICT6							
12	Display	M5	With display							
		N	No Display							
13	Additional Requirements	B	Mounting brackets							
		P	The material of the chamber flange is 304, 316L is optional							
		N	Bolts and nuts are made of colored zinc, stainless steel is optional							
		K	Degreasing and cleaning treatment							
		L	Hanging number plate							
		H	Lightning protection (transient voltage resistance)							
		E	English nameplate							

LEFOO

LFT720B

Remote Flange DP Transmitter



LFT720 Remote Flange Transmitter is composed of the LFT710 Differential Pressure Transmitter and a small welded remote flange with a capillary tube. Between the flange and the sensor, silicon oil and other filling fluids are used to transmit pressure, to prevent the measured medium from passing through the impulse pipe. Which will impact the measurement. The impact of the measured medium pass through the impulse pipe includes crystallization, solidification vaporization (boiling), condensation fractionation (severe change) and etc. The Transmitter is used to measure the liquid level, flow and pressure of liquid, gas or steam, and then convert it into 4~20 mA signal output. The working principle of LFT720 Flange Transmitter is the same as LFT710 Differential Pressure Transmitter except that the pressure transmission path on the positive pressure side is slightly different, that is the pressure acting on the high-pressure side firstly passes through the diaphragm and the filling liquid of the remote flange, and then pass to the transmitter body via capillary tube, and finally reach the high pressure side of measurement sensor.

SPECIFICATION

The range is adjusted based on the standard zero point. The diaphragm is stainless steel 316L, and the filling liquid is silicone oil.

1)Reference accuracy of range adjustment

Includes linearity, hysteresis and repeatability from zero.			
Linear Output Accuracy	TD≤10	±0.075%	Nominal range: 40KPa, 250KPa 1MPa, 3MPa
	10<TD≤100	±0.0075TD%	
Note: TD = Turn down URV ≥ LRV . TD=URL/ URV URV ≤ LRV . TD=URL/ LRV			

2)Power Impact

When the power supply voltage changes within 12~36V DC, the change of zero point and range does not exceed ±0.005% of the upper limit of the range/V, which can be ignored.

FUNCTIONAL SPECIFICATIONS

1)Range Selection

Range can be adjusted by turn down adjustment within URL and LRL. Such as for URL/LRL -40~40 kPa, TD=10, range can be 0~4kPa or -4~4kPa. Turn down should be as low as possible to ensure accuracy. In general, turn down is within 10, too big will affect accuracy.

2)Range and scope

RANGE/ URL/LRL		KPa	TURN DOWN
C	range	1 ~ 40	1~40
	URL/LRL	-40 ~ 40	
D	range	2.5 ~ 250	1~100
	URL/LRL	-250 ~ 250	
E	range	10 ~ 1000	1~100
	URL/LRL	-500 ~ 1000	

3)Zero Setting

Zero point and span can be adjusted to any value within the measuring range in the Table, as long as the calibration range ≥ minimum span.

4)Installation position influence

It can install at any position through the liquid-level flange. The best state is to keep the process flange in a vertical state. The offset caused by the position deviation can be corrected by clearing the operation.

5)Output

SIGNAL	TYPE	OUTPUT METHOD
4~20mA	linear	Two-wire
4~20mA+HART	linear	Two-wire

6)Alarm Current

- Low alarm model (Min):3.8mA.
- High alarm mode(Max):20.8mA.
- Alarm current standard setting: high alarm mode.
- Non-alarm mode (maintain): maintain the current practical value before the fault.

7)Response time

- The total damping constant time equal to the sum of the damping time constant of the electronic circuit components and the sensing bellows.
- Electronic circuit component damping time: 0-60S range adjustable.
- Sensing bellows damping time: ≤0.2S.
- Power-on start-up time after power failure: ≤5S.
- Data recovery to normal usage time: ≤2S.

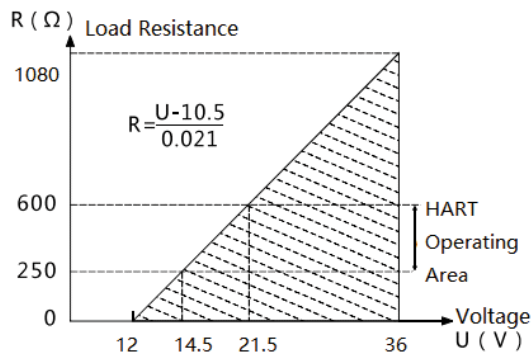
8)Environment Temperature

TEST PROJECT	TEST CONDITION
Ambient temperature range	-20~70°C
Storage ambient temperature range	-40~85°C
Measuring medium temperature range	Silicone oil filled sensor: -40~120°C
Operating environment humidity range	5-100%RH@40°C
Degree of protection	IP65
Dangerous place	ExdIICT6

INSTALLATION

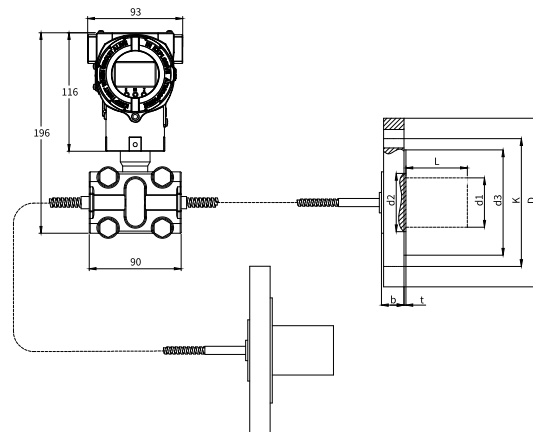
1)Power Supply and Load Conditions

ITEM	WORKING CONDITION
Standard/ flameproof	14.5~36VDC, the load resistance is 250~600Ω during communication
RS485	12-36VDC

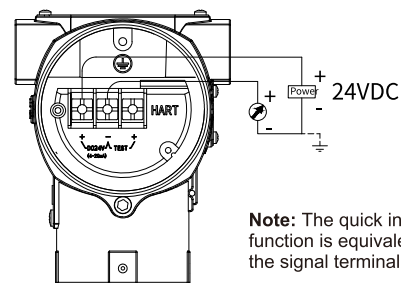


2)Electrical Connections

TYPE	INSTRUCTION
Electrical connections	Aluminum alloy junction box, two outlets with internal thread M20*1.5, the main body is light blue, and the cover is white.
Outlet protection	One end equip with an M20*1.5 waterproof connector and the other end equip with a plug PVC material applicable wire diameter 6-8mm protection grade IP65.
	In the explosion-proof configuration, one end equips with internal thread NPT1/2. The other is equipped with a plug, stainless steel material an applicable wire diameter of 6-8mm, and protection grade IP65.
	Explosion-proof configuration, one end is equipped with internal thread M20*1.5, the other end is equipped with plug, stainless steel material applicable wire diameter 6-8mm protection grade IP65.



ELECTRICAL CONNECTION



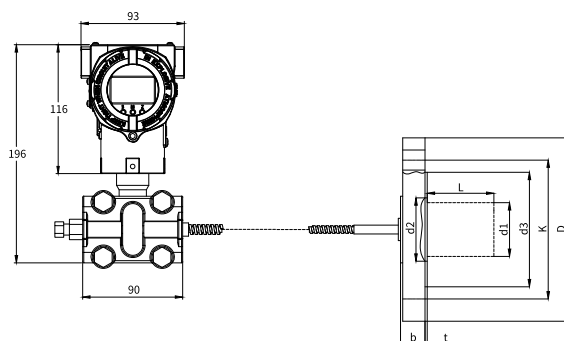
PHYSICAL SPECIFICATIONS

Measuring bellows	316L stainless steel
Diaphragm	316L, Hastelloy, Tantalum, FEP, PFA PTFE coating
Process flange	SS304, SS316L
Nuts and bolts	Stainless steel (A4), color zinc
Sealing ring	NBR, FKM, EPDM
Transmitter housing	Aluminum alloy
Housing seal ring	NBR
Nameplate	304 stainless steel

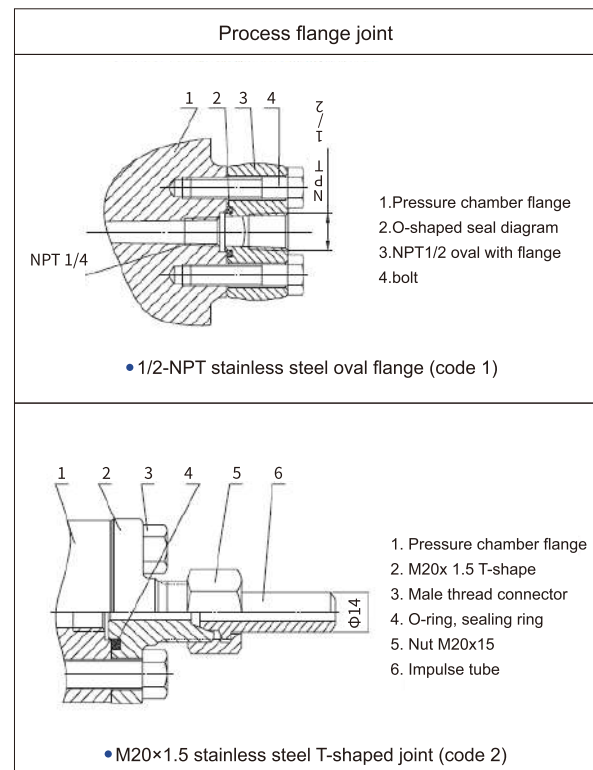
Weight:▶▶

Single Flange: ①DN50/2": 7~10Kg;②DN80/3": 8~11Kg;③DN100/4": 12~18Kg
Double Flange: ①DN50/2":10~16.5Kg;②DN80/3":12~18Kg;③DN100/4":14~21Kg

1)Dimension(mm)



PROCESS CONNECTION DESCRIPTION



DIAPHRAGM SEAL SELECTION GUIDE

				
Seal type	Flat(ring connection surface connection)	Flange Remote Seals(ring connection surface connection)	Extended flange connection	Threaded Remote Seals
Common types of applications and services	General application	General application ,Smaller process connection	Insulation process	Threaded connections for high temperature applications
Process connection size	2inchDN50 3inchDN80 4inchDN100	1inchDN25 1½inchDN40 2inchDN50 3inchDN80 4inchDN100	3inchDN80 4inchDN100	NPT1/2
Flange pressure rating or maximum ultimate working pressure	Grade150 Grade300 Grade600 PN40 PN64(63) PN100 No Flange(The maximum ultimate working pressure is 2000 PSI)	Grade150 Grade300 Grade600 PN16 PN40 PN64 PN100	Grade150 Grade300 Grade600 PN10/16 PN40 PN64 PN100	2500PSI
Diaphragm and wetted parts material	316 stainless steel Hastelloy C Tantalum 304 stainless steel	316 stainless steel Hastelloy C Tantalum 304 stainless steel	316 stainless steel 304 stainless steel	316 stainless steel Hastelloy C Tantalum
Lower set material	316 stainless steel Hastelloy C carbon steel 304 stainless steel	316 stainless steel Hastelloy C carbon steel 304 stainless steel	Not applicable	316 stainless steel Hastelloy C carbon steel 304 stainless steel
Options	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon	Diaphragm PTFE Diaphragm coated with Teflon

MODEL AND SPECIFICATION CODE LIST

1. Differential pressure monoflange remote transmission (selection)

Model and specification code list										delivery
Differential pressure transmitter selection LFT720-										
1	Range	C	0-4KPa~40KPa(0-400~4000mmH ₂ O)/(0-40~400mbar)							
		D	0-5KPa~250KPa(0-0.5~25mH ₂ O)/(0-50~2500mbar)							
		E	0-100KPa~1MPa(0-10~100mH ₂ O)/(0-1~10bar)							
		F	0-300KPa~3MPa(0-30~300mH ₂ O)/(0-3~30bar)							
2	Diaphragm Material	S	316L							
		H	Hastelloy C (insert cylinder does not have this option)							
		T	Tantalum (insert barrel does not have this option)							
		Y	special requirements							
3	Process Fill Fluid	D	Normal temperature silicone oil(-40~205°C)							
		C	High temperature silicone oil(0~315°C)							
4	Electrical Interface	1	M20*1.5 Female thread, PVC							
		2	M20*1.5 Female thread, stainless steel							
		3	1/2NPT Female thread, PVC							
		4	1/2NPT Female thread, stainless steel							
5	Flange Standard	N	HG-T20592-2009 (Steel pipe flange PN series) (Quoting European DIN system standard)							
		J	HG-T20615-2009 (Steel pipe flange Class series) (refer to American ANSI system standard)							
		F	Other Flange Standards							
6	Flange Type	P	Flat type							
		R	Flange type							
		E	Insert barrel type (DN25, DN40, 1 inch, 1½ inch not available)							
7	Flange Size	1	DN25				1 Inch			
		2	DN40				1½ Inch			
		3	DN50				2 Inch			
		4	DN80				3 Inch			
		5	DN100				4 Inch			
		6	Other							
8	Nominal pressure rating	1	PN2.5, PN6							
		2	PN10, PN16				Class150(1b)			
		3	PN25, PN40				Class300(1b)			
		Y	Special Requirements							
9	Insertion barrel extension length	0	0(without insert barrel)							
		2	50mm							
		4	100mm							
		6	150mm							
		8	200mm							
		Y	special requirements							
10	High pressure H-end capillary length					The length of the capillary is from 1 to 10m represented by (Example: 4m, 04)				
11	Explosion-proof treatment	N	Normal type							
		D	Flameproof ExdIICT6							
12	Display	M5	with display							
		N	No display							
13	Additional Requirements	B	Mounting brackets							
		P	The material of the chamber flange is 304, 316L is optional							
		N	Bolts and nuts are made of colored zinc, stainless steel is optional							
		K	Degreasing and cleaning treatment							
		L	Hanging number plate							
		H	Lightning protection (transient voltage resistance)							
		E	English nameplate							

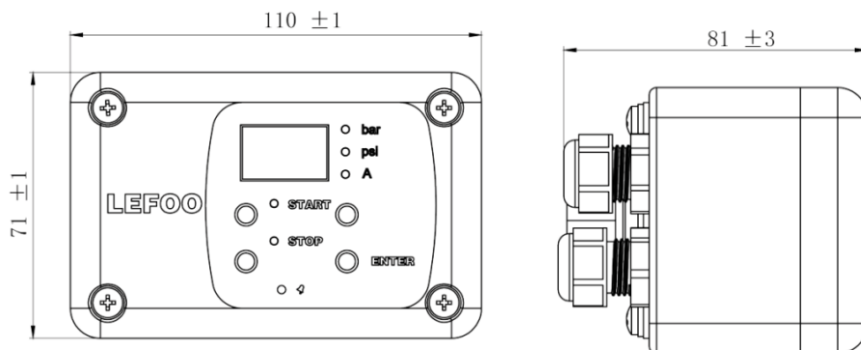
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2. Differential pressure double flange (option)

Model and specification code list										Delivery
Differential pressure transmitter selection LFT720-										
1	Range	C	0-4KPa~40KPa(0-400~4000mmH ₂ O)/(0-40~400mbar)							
		D	0-5KPa~250KPa(0-0.5~25mH ₂ O)/(0-50~2500mbar)							
		E	0-100KPa~1MPa(0-10~100mH ₂ O)/(0-1~10bar)							
2	Diaphragm material	S	316L							
		H	Hastelloy C (insert cylinder does not have this option)							
		T	Tantalum (insert barrel does not have this option)							
		Y	special requirements							
3	Process Fill Fluid	D	Normal temperature silicone oil(-40~205°C)							
		C	High temperature silicone oil(0~315°C)							
4	Electrical Interface	1	M20*1.5 Female thread,PVC							
		2	M20*1.5 Female thread,stainless steel							
		3	1/2NPT Female thread,PVC							
		4	1/2NPT Female thread,stainless steel							
5	Flange Standard	N	HG-T20592-2009(Steel pipe flange PN series) (Quoting European DIN system standard)							
		J	HG-T20615-2009(Steel pipe flange Class series) (refer to American ANSI system standard)							
		F	Other Flange Standards							
6	Flange Type	P	Flat type (only DN50, 2 inches and above)							
		R	Flange Type							
		E	Insert barrel type (only DN80, 2 inches and above)							
7	Flange Size	1	DN25				1Inch			
		2	DN40				1½Inch			
		3	DN50				2Inch			
		4	DN80				3Inch			
		5	DN100				4Inch			
		6	OTHER							
8	Nominal pressure rating	1	PN2.5、PN6							
		2	PN10、PN16				Class150(1b)			
		3	PN25、PN40				Class300(1b)			
		Y	special requirements							
9	Insertion barrel extension length	0	0(without insert cartridge)							
		2	50mm							
		4	100mm							
		6	150mm							
		8	200mm							
		Y	special requirements							
10	High pressure H end low pressure L end capillary length						The length of the capillary is from 1 to 10m, represented by (Example: 4m, 04)			
							The length of the capillary is from 1 to 10m, represented by (Example: 4m, 04)			
11	Explosion-proof treatment	N	Ordinary type							
		D	Exproof ExdIICT6							
12	Display	M5	With display							
		N	No Display							
13	Additional Requirements	B	Mounting brackets							
		P	The material of the chamber flange is 304, 316L is optional							
		N	Bolts and nuts are made of colored zinc, stainless steel is optional							
		K	Degreasing and cleaning treatment							
		L	Hanging number plate							
		H	Lightning protection (transient voltage resistance)							
		E	English nameplate							

LFDS62

Digital Pressure Switch



Dimension in : mm

LFDS62 Digital Pressure Controller adopts a high-reliability ceramic core for pressure measurement. The signal is processed by the back-end circuit and displayed, and the relay output is automatically controlled according to the pressure change. The product is designed with an al-engineering plastic shell. The switch pressure and rated current can be set by pressing the button. The digital tube can display the current pressure in real time and switch to display the output current. At the same time, it has the function of overcurrent protection. When used in a water pump system, the dry pumping alarm can be turned on to protect the motor. In addition, according to the actual needs of the site, the fast cycle alarm function can be turned on to avoid frequent starting and stopping of the motor. The product has the characteristics of anti-vibration, simple operation, strong stability, and clear display. Suitable for air compressors, water pumps and other pressure control systems.

LFDS62 Order Ref No

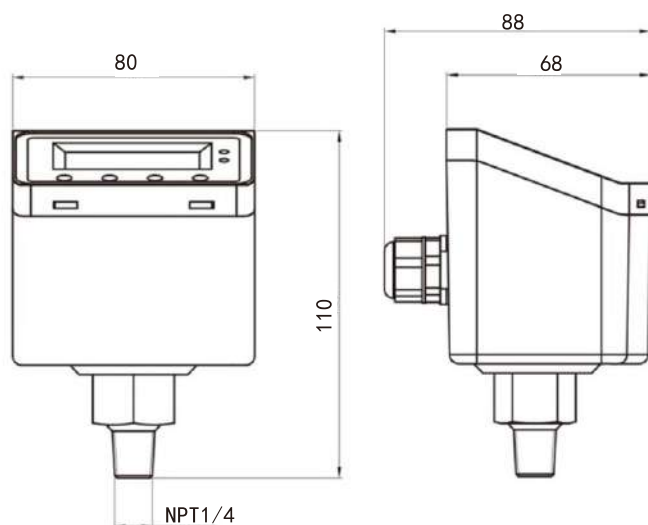
LFDS62 1 G
A B

A Pressure range	B Pressure connection
1=0~10Bar	G=G1/4(Default)
2=0~16Bar	N=NPT1/4

Specification

General	Value
Pressure range	0~10Bar 0~16Bar
Overload pressure	1.5 times rated pressure
Accuracy	$\pm 1.0\%$ F.S
Operating temperature	$-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Storage temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Medium	Gas or liquid compatible with 1Cr18Ni9Ti, Nylon, Fluorine rubber or Nitrile Rubber
Output mode	AC output, the output voltage is consistent with the supply voltage
Power supply	110~220VAC
Protection level	Ip55
Pressure connection	NPT1/4,G1/4 female thread
Pressure type	Gauge pressure G
Load capacity	10A MAX
Display mode	3-digit digital tube

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Dimension in : mm

LFDS63

Digital Pressure Switch



LFDS63 Digital Pressure Switch adopts high-reliability pressure core for pressure measurement. The signal is processed by the back-end circuit and displayed, and the relay output is automatically controlled according to the pressure change. This series of products are designed with al-engineering plastic shell, and the high-contrast LCD digital display enables the product to be used in various industrial occasions. It provides a variety of connection methods to fully meet various specific installation needs, and has a variety of built-in setting items, allowing users to adjust the working parameters by themselves, which is flexible and convenient. This series of products has the characteristics of anti-vibration, long life, simple operation, strong stability and clear display.

LFDS63 Order Ref No

LFDS63 O N J R 110V

A B C D F

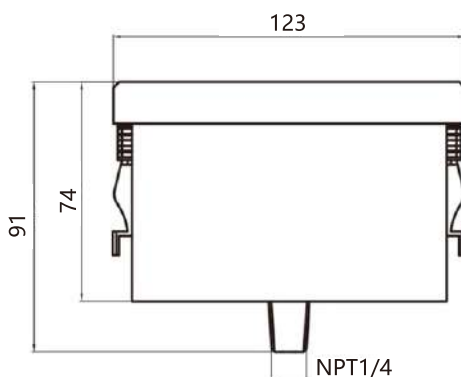
A Pressure range	B Output mode	C Special functions	D Pressureconnection	E Power supply
2=0~1...5MPa	N=Single AC output (active charge)	N=Routine	G=G1/4(default)	220V=AC220V
0=-101~0kPa	S=Single Switch Output	J=Customized	N=NPT1/4	110V=AC110V
			R=R1/4	

Specification

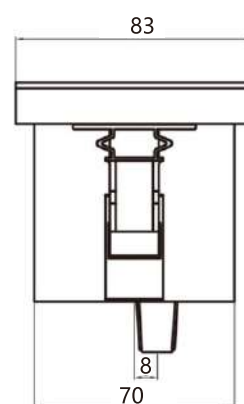
General	Value	
Pressure type	Vacuum type (negative pressure)	Medium pressure type
Pressure range	-101~0kPa	0~1...5MPa
Voltage withstand	1.5 times	2 times
Medium	Gas or liquid compatible with 1Cr18Ni9Ti, copper, Fluorine rubber or Nitrile Rubber	
Display mode	LCD	
Rated-operating voltage	220/110VAC	
Output mode	Single AC output (active charge)	
	Single Switch Output	
Load capacity	10A MAX	
Storage temperature	-40°C~85°C	
Operating temperature	-10°C~50°C	
Protection level	Ip54	
Pressure connection	G1/4(default),NPT1/4,R1/4	
Accuracy	±1%F.S	
Dimensions	80*98*110mm(with connector)	

LFDS65

Digital Pressure Switch



LEFOO



Dimension in : mm

LFDS65 (650/652) series intelligent Pressure Switch is an intelligent control instrument integrating pressure measurement, large-screen LCD display and control. The instrument can automatically open/close the relay output according to the pressure state in the container, in order to maintain the pressure in the container. A variety of connection methods are provided to fully meet various specific installation requirements. Various setting items are built in, and the working parameters can be adjusted by the user. It is flexible and convenient .with simple operation, clear display, anti-vibration, high control accuracy. High, long service life and other characteristics.

LFDS65 Order Ref No

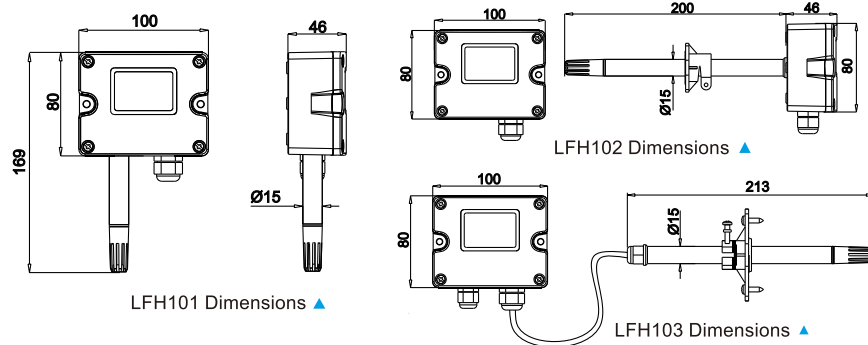
LFDS65 2 N J R 220V
A B C D E

A Pressure Range	B Output type	C Special function	D Pressure connection	E Power supply
2=0~2MPa	S=Single Switch Output	N=Default	N=NTP1/4(default)	220V=AC220V
0=-101~0kPa	N=Single AC output	J=Customized	G=G1/4	110V=AC110V
			R=R1/4	

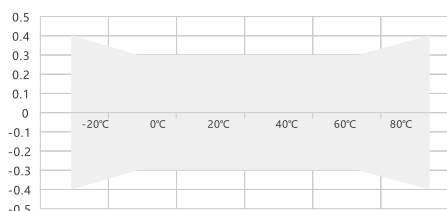
Specification

General	Value	
Pressure type	Vacuum type (negative pressure)	Positive pressure
Pressure range	-101~0kPa	0~2.0MPa
Voltage withstand	1.5times	2times
Medium	Non-corrosive dry gas	Gas or Liquid Compatible with 1Gr18Ni9TiCopper, Fluorine rubber or Nitrile Rubber
Display mode	LCD	
Rated operating voltage	Gauge pressure	
Measurement methods	220/110VAC	
Output mode	Relay switch output / AC output	
Load capacity	10AMAX(single loop)	
Storage temperature	-40°C~85°C	
Operating temperature	-10°C~50°C	
Protection level	IP54	
Installation interface	NPT1/4 male (default), G1/4, R1/4	
Special functions	Default, customized	
Accuracy	±1%F.S	

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Digital sensor temperature accuracy curve



LFH10

Temperature and Humidity Transmitter



LFH10 Temperature and Humidity Transmitter is specially designed for industrial applications. There are three installation methods: wall-mount, duct type, and split type. Three output models of current, voltage, and RS485 are optional, with flexible site installation adaptability. The terminal design is suitable for quick installation. It can be widely used in data room, HVAC, buildings, warehouses and other places need to measure temperature and humidity.

LFH10 Order Ref No

LFH101 - 2 A4 A4 1 1
A B C D E

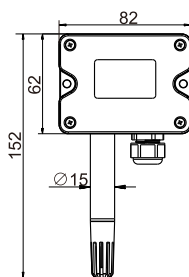
Model	A Accuracy range	B Humidity output	C Temperature output	D Temperature range	E Display mode
LFH101-Wall-mounted temperature and humidity transmitter	3=±3%RH(0.3℃)	V10=0~10VDC(3-wire)	V10=0~10VDC(3-wire)	0=NO	0=NO
LFH102-Duct type temperature and humidity transmitter		A4=4~20mA(2-wire)	A4=4~20mA(2-wire)	1=0~50℃	1=LCD display
LFH103-Split type temperature and humidity transmitter		RS=RS485/Modbus	RS=RS485/Modbus	2=-20~60℃	
				0=PT1000,±0.2℃@0℃	8=Others (customer specified)
				1=PT100,±0.2℃@0℃	
				2=NTC20K,±0.4℃@25℃	
				6=NTC10K,±0.4℃@25℃	

Specification

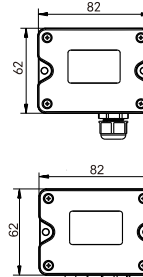
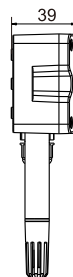
1 Relative Humidity		
Sensor	Digital type	
Measuring Range	0%~100%RH	
Output	RS485/Modbus, 0~10VDC, 4~20mA optional	
Accuracy	±3%@ 20%~80%RH	
Response time	≤10s(20°C,Slow flow air)	
2 Temperature		
Sensor	Digital type or thermal resistance, see Order Ref No.	
Range	0~50°C,-20~60°C,etc.	
Output	4~20mA,0~10VDC,RS485/Modbus optional	
Thermal Resistance	See Order Ref No.and Thermal Resistance Indexing Table	
Accuracy	Digital type: ±0.3°C@0~60°C Thermal resistance:typical±0.2~0.4°C@25°C,see Order Ref No.	
Power Supply	Voltage type/RS-485:15~35VDC/24VAC+20% (AC power supply needs to be connected to anisolation transformer)	Current type:18.5~35VDC (RL=500Ω)8.5~35VDC(RL=0Ω)
Output Load	≤500Ω(Current type), ≥2KΩ(voltage type)	
Display	LCD display optional, with unit display and backlight (4~20mA without backlight)	
Case Material	PC shell, PA6 probe rod and polymer filter(optional stainless steel probe and stainless steel sintered filter)	
Working Environmen	-20~60°C,5%-95%RH (Non-condensing)	
Protection Grade	Ip65	

LFH10A

Temperature and Humidity Transmitter

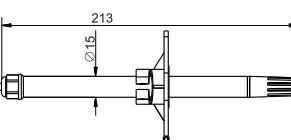


LFH10A1 Dimensions ▲



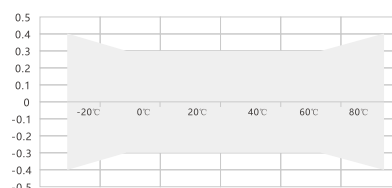
LFH10A2 Dimensions ▲

LFH10A3 Dimensions ▼



Dimension in : mm

Digital sensor temperature accuracy curve



LFH10A series Temperature and Humidity Transmitter is a transmitter specially designed for industrial applications it has three installation methods: wall-mounted, duct type, and split. The three output modes of current, voltage and RS485 are optional. The on-site adaptability is strong, and the terminal design is suitable for rapid installation, it can be widely used in computer rooms, HVAC, buildings, warehousing and other places where temperature and humidity measurement is required.

LFH10A Order Ref No

LFH10A1 - 3 A4 A4 1 1

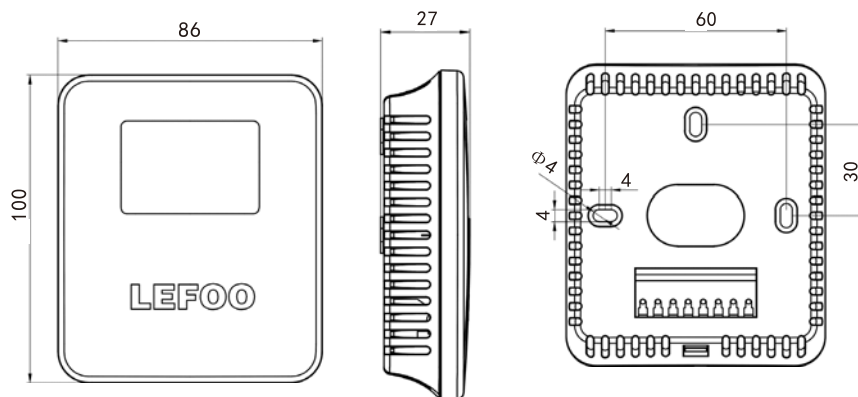
A B C D E

Model	A Accuracy	B Humidity Output	C Temperature Output	D Temperature Range	E Display
LFH10A1-Wall-mounted temperature and humidity transmitter	3= $\pm 3\%RH(0.3^{\circ}C)$	V10=0~10VDC(3-wire)	V10=0~10VDC(3-wire)	0=None	0=None
LFH10A2-Duct type temperature and humidity transmitter		A4=4~20mA(2-wire)	A4=4~20mA(2-wire)	1=0~50°C	1=LCD display
LFH10A3-Split type temperature and humidity transmitter		RS=RS485/Modbus	RS=RS485/Modbus	2=-20~60°C	
0=PT1000, $\pm 0.2^{\circ}C @ 0^{\circ}C$ 8=Other (customer specified)					
1=PT100, $\pm 0.2^{\circ}C @ 0^{\circ}C$					
2=NTC20K, $\pm 0.4^{\circ}C @ 25^{\circ}C$					
6=NTC10K, $\pm 0.4^{\circ}C @ 25^{\circ}C$					

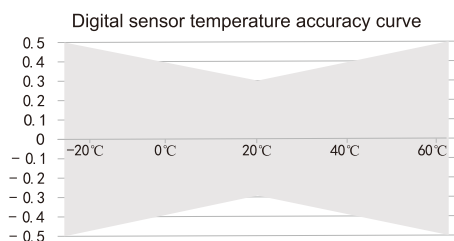
Specification

1 Relative humidity		
Sensor	Digital type	
Measuring Range	0%~100%RH	
Output	Output:RS485/Modbus,0~10VDC,4~20mA optional	
Accuracy	±3%@ 20°C & 20~80%RH	
Response time	≤10s(20°C,slow flow air)	
2 Temperature		
Sensor	Digital type or thermal resistance , see Order Ref No	
Measuring Range	0~50°C, -20~60°C etc	
Output	4~20mA,0~10VDC,RS485/Modbus Optional	
Thermal Resistance	See Order Ref No. and Thermal Resistance Indexing Table	
Accuracy	Digital type: ±0.3°C@0~60°C Thermal resistance :typical±0.2~0.4°C@25°C, see Order Ref No.	
Power Supply	Voltage type/RS-485:15~35VDC/24VAC +20% (AC power supply requires isolated power supply)	Current type: 19.5~35VDC(RL=500Ω)/9.5~35VDC(RL=0Ω)
Output Load	≤250Ω(Current type), ≥2KΩ(Voltage type)	
Display	LCD display optional, with unit display and backlight (4-20mA without backlight)	
Shell Material	PC shell, PA6 probe rod and polymer filter(optional stainless steel probe and stainless steel sintered filter)	
Working Environment	-20~60°C,5%~95%RH(Non-condensing)	
Protection Grade	Ip65	

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Dimension in : mm



LFH20 Order Ref No

LFH20 - 3 A4 A4 1 1

A B C D E

A Accuracy Range	B Humidity Output	C Temperature Output	D Temperature range	E Display
3=±3%RH(0.3°C)	V10=0~10VDC(3-wire)	V10=0~10VDC(3-wire)	0=NO	0=No display
	A4=4~20mA(2-wire)	A4=4~20mA(2-wire)	1=0~50°C	1=LCD display
	RS=RS485/Modbus	RS=RS485/Modbus	2=-20~60°C	
	N=No output	0=PT1000,±0.2°C@0°C	8=Others (customerized)	
		1=PT100,±0.2°C@0°C		
		2=NTC20K,±0.4°C@25°C		
		3=NTC10K,±0.4°C@25°C		
		N=No output		

Specification

General	Value
1 Relative humidity	
Transducer	Digital
range	0%~100%
Output	RS485/Modbus,0~10VDC,4~20mA optional
Accuracy	±3%@ 20°C& 20~80%RH
Response Time	≤10s(20°C,slow flow air)
2 Temperature	
Transmitter	Digital or thermal resistance, see model selection table
Range	0~50°C,-20~60°Cetc
Output	4~20mA,0~10VDC,RS485/Modbus optional
Thermal Resistance	See Order Ref No. and Thermal Resistance Index Table
Accuracy	Digital type: ±0.3°C@20°C; Thermal resistance type: ±0.2~0.4°C@25°C,See selection table
Power Supply	Voltage type/485 type: 15-35VDC24VAC+20% (isolated power supply is required for AC power supply)
	Current type:19.5-35VDC(RL=500Ω)9.5-35VDC(RL=0Ω)
Output Load	≤500Ω(Current type),≥2KΩ(Voltage)
Display	LCD display optional, with unit display and backlight (4~20)mA output without backlight
Shell Material	PC case
Work Environment	-20~60°C,5%-95%RH(Non-condensing)
Protection Grade	Ip30

LFH20

Indoor Temperature and Humidity Transmitter



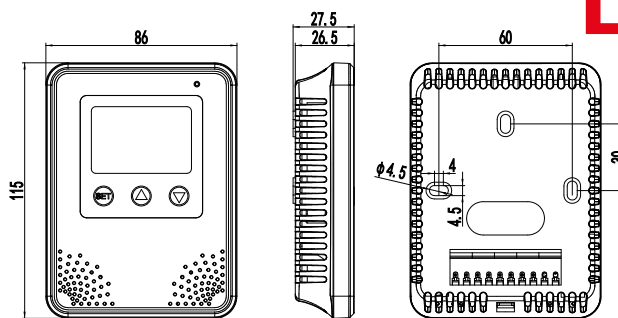
LFH20 Temperature and Humidity Transmitter is specially designed for indoor temperature and humidity detection. It is small in size, simple in installation and easy to operate. It has special design for lightning surge, static electricity, group pulse, withstand voltage, etc, and has strong ant-interference ability. There are three output modes of current,voltage and RS485 to choose from. It can be widely used in computer rooms, buildings, warehouses and other places,where temperature and humidity are to be measured.

LFH21

Temperature and Humidity controller

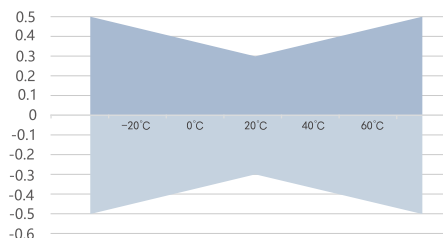


LFH21 Temperature and Humidity Controller is a product specially designed for indoor temperature and humidity detection and control. It has the advantages of compact size, simple installation and convenient operation, it has special design for lightning surge, electrostatic discharge, group pulse, voltage resistance, etc., strong anti-interference ability, and has an alarm function. It is widely used in computer rooms, buildings, warehousing and other places where temperature and humidity measurement and control are required.



Dimension in : mm

DIGITAL SENSOR TEMPERATURE ACCURACY CURVE



LFH21 Order Ref No

LFH21 3 V10 V10 2 1 3
A B C D E F

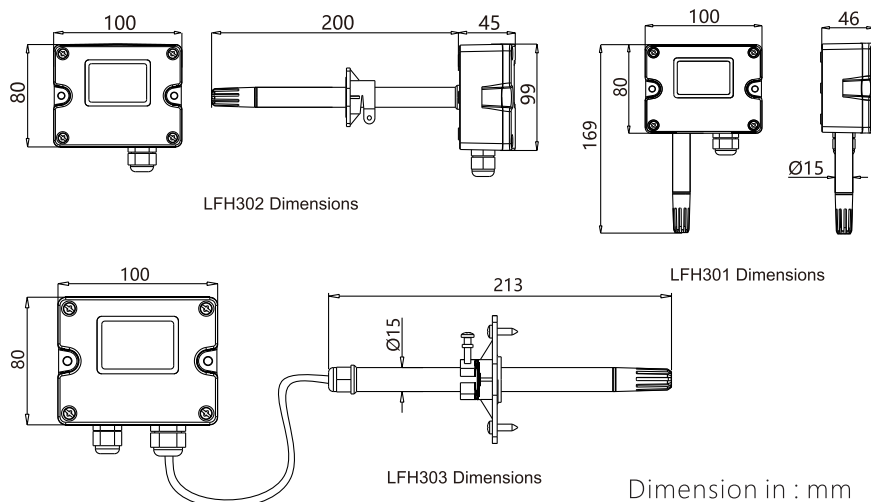
A Accuracy	B Humidity output	C Temperature output	D Temperature range	E Display and setting button	F Alarm ansrelay
±3%RH(±0.3°C)	V10=0~10VDC (3-wire)	V10=0~10VDC(3-wire)	0=No	1=Setting button, backlight	1=Alarm only
	RS=RS485/Modbus	RS=RS485/Modbus	1=0~50°C	LCD display with unit	2=Relay only
		0=PT1000, ±0.2°C@0°C	2=-20~60°C		3=Alarm ans relay
		1=PT100, ±0.2°C@0°C	8=Customized range		
		2=NTC20K, ±0.4°C@25°C			
		3=NTC10K, ±0.4°C@25°C			

1. Only when the temperature output option is V10, the temperature range 1-8 needs to be selected accordingly; otherwise, only 0 can be selected.
2. Long-term exposure of the sensor probe of this product to high-concentration chemical gases may cause the sensor readings to shift

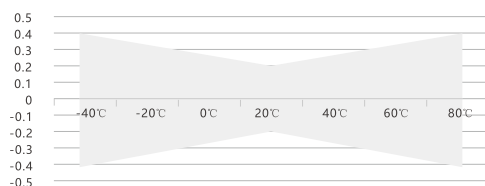
Specification

General	Value
1. Relative Humidity	
Sensor	Digital
Range	0%~100%RH
Output	RS485/Modbus, 0~10VDC
Accuracy	±3%@ 20°C & 20~80%RH
Response time	<10s(20°C, slow flow air)
2. Temperature	
Sensor	Digital or passive thermal resistor, details in below selection table
Range	0~50°C, -20~60°C ETC
Output	RS485/Modbus, 0~10VDC
Thermal resistance	Details in selection table and thermal resistance graduation table
Accuracy	Digital type: ±0.3°C@20°C; See table below , Passive thermal resistance: typical ±0.2~0.4°C@25°C
Power supply	RS485: 15~35VDC/24VAC±20% Voltage: 15~35VDC/24VAC±20%
	Note: when RS485 and voltage type uses AC power supply, an isolation transformer is required
Output load	≥10 KΩ(voltage output)
Display accuracy	0.1°C, 0.1%RH
Display and buttons	LCD display and keys with unit display and backlight
Alarm function	1×BUZZER, 1×LED
Relay	2×SPST, 3A/30VDC, 3A/250VAC
Shell material	PC shell
Operating environment	-20~60°C, 5%-95%RH(Non-condensing)
Protection Grade	Ip30

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Digital sensor temperature accuracy curve



LFH30 Order Ref No

LFH30 - 2 A4 A4 1 1

A B C D E

LFH30 Temperature and Humidity Transmitter



LFH30 sensitive components use imported polymer film humidity sensitive capacitors and PT1000 temperature sensitive resistors. The special breathable coating and SMD injection molding process can ensure the long stability of the probe in the environment of dust, salt spray pollution and high humidity condensation. It is calibrated with mature humidity and temperature measurement technology to ensure the accuracy. It is suitable for high-standard intelligent buildings, incubators, industrial dehumidifiers and other fields.

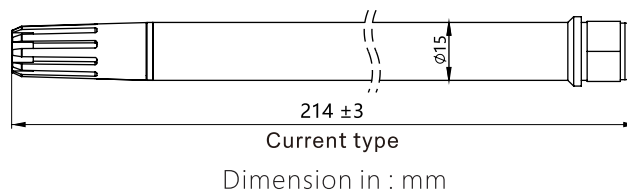
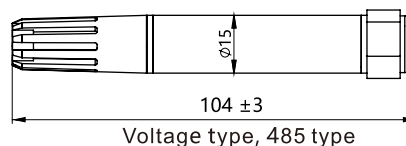
Model	A Accuracy range	B Humidity output	C Temperature output	D Temperature range	E Display mode
LFH301-Wall-mounted type temperature and humidity transmitter	2=±2%RH(0.3 °C)	V10=0~10VDC(3-wire)	V10=0~10VDC(3-wire)	0=NO	0=NO
LFH302-Duct type temperature and humidity transmitter	A4=4~20mA(2-wire)	A4=4~20mA(2-wire)	1=0~50°C	1=LCD display	
LFH303-Split type temperature and humidity transmitter	RS=RS485/Modbus	RS=RS485/Modbus	2=-20~60°C		
			0=PT1000,±0.2 °C @0 °C	8=Others (customer specified)	
			1=PT100,±0.2 °C @0 °C		
			2=NTC20K,±0.4 °C @25°C		
			6=NTC10K,±0.4°C@25°C		

Specification

General	Value
1 Relative Humidity	
Sensor	Humidity Sensitive Capacitor
Measuring Range	0%~100%RH
Output	RS485/Modbus, 0~10VDC, 4~20mA optional
Accuracy	±2%@ 20@&20~80%RH
Response time	≤10s(20°C,Slow flow air)
2 Temperature	
Sensor	Pt1000 or passive thermal resistance, see Order Ref No
Measuring Range	0~50°C,-20~60°C,etc.
Output	4~20mA,0~10VDC,RS485/Modbus optional
Thermal Resistance	See Order Ref No.and Thermal Resistance Indexing Table
Accuracy	±0.2°C@20°C Passivity RTD:typical±0.2~0.4°C@25°C,see Order Ref No.
Power Supply	Rs485 type 9~35VDC/24VAC±20% Voltage type:12~35VDC/24VDC±20% Current type:12V+RL*20mA<UV<35VDC
Output Load	≤500Ω(Current type),≥2KΩ(voltage type)
Display	LCD display optional, with unit display and backlight (4~20mA without backlight)
Case Material	PC shell, PA6 probe rod and polymer filter
Working Environmen	-20~60°C,5%-95%RH (Non-condensing)
Protection Grade	Ip65

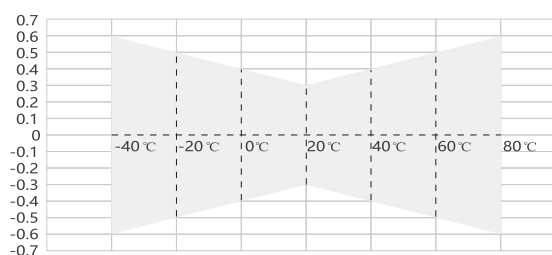
LFH51

Probe Type Temperature and Humidity Transmitter



Dimension in : mm

Digital sensor temperature accuracy curve



LFH51 Temperature and Humidity Transmitter adopts high-precision digital probe, which has good long-term stability and anti-interference ability, small size, simple installation and easy operation. There are two output modes of voltage and RS485 to choose from. It is widely used in ventilation ducts, industrial workshops, warehouses and other places that need to measure temperature and humidity.

LFH51 Order Ref No

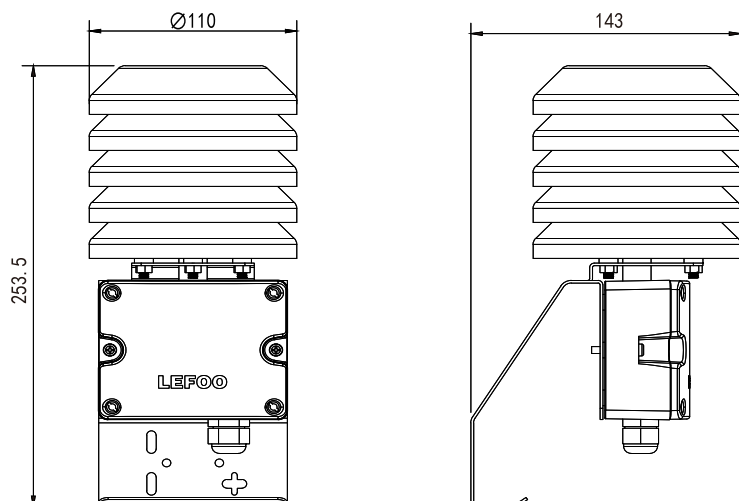
LFH51 - 3 V10 V10 2
A B C D

A Accuracy Range	B Humidity output	C Temperature Output	D Temperature Range
3=±3%RH(±0.3°C)	V10=0~10VDC(three wires)	V10=0~10VDC(three wires)	0=NO
	RS=RS485/Modbus	RS=RS485/Modbus	1=0~50°C
	A4=4~20mA(two wires)	A4=4~20mA(two wires)	2=-20~60°C
			8=Others (customer specified)

Specification

General	Value
1 Relative humidity	
Sensor	Digital
Measurement Range	0%~100%RH
Output	Output:RS485/Modbus,0-10VDC,4-20mA optiona
Accuracy	±3%@ 20°C & 60%RH
2 Temperature	
Sensor	Digital
Output	Output:RS485/Modbus,0-10VDC,4-20mA optiona
Accuracy	±0.3°C@20°C see the Table below
Power Supply	Voltage/RS485 type:12-36VDC Current type:19.5~35VDC(RL=500Ω)/9.5~35VDC(RL=0Ω)
Shell Material	Pa6 case
Working Environment	-40~85°C,5%-95%RH(Non-condensing)
Protection Level	Ip65

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LFH52

Outdoor temperature and Humidity transmitters



LFH52 Temperature and Humidity Transmitter is a Transmitter specially designed for outdoor temperature and humidity detection. The standard radiation shield can prevent wind and rain, and provide the best protection for the transmitter in bad weather. There are three output modes of current, voltage and RS485 to choose. Can be widely used in construction site environment, weather monitoring and other outdoor occasions.

LFH52 Order Ref No Dimension in : mm

LFH52 - 3 A4 A4 2

A B C D

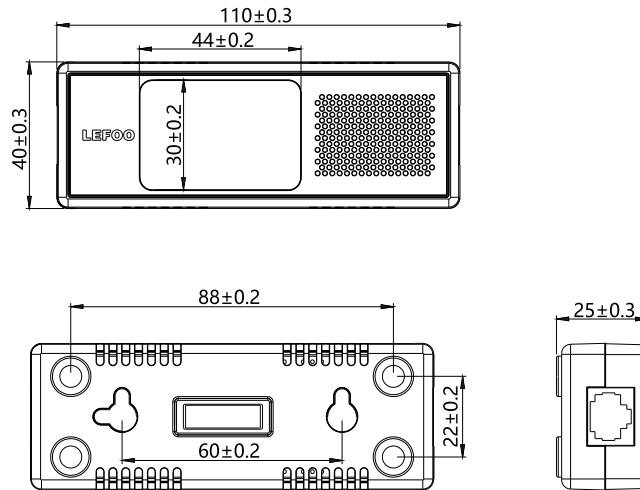
A Accuracy Range	B Humidity Output	C Temperature Output	D Temperature range
3=±3%RH(±0.5°C)	V10=0~10VDC(3-wire)	V10=0~10VDC(3-wire)	0=NO
	A4=4~20mA(2-wire)	A4=4~20mA(2-wire)	1=0~50°C
	RS=RS485/Modbus	RS=RS485/Modbus	2=-20~60°C
		0=PT1000,±0.2°C@0°C	8=Others (customerized)
		1=PT100,±0.2°C@0°C	
		2=NTC20K,±0.4°C@25°C	
		6=NTC10K,±0.4°C@25°C	

Specification

General	Value	
1 Relative humidity		
Sensor	Digital	
Range	0%~100%RH	
Output	RS485/Modbus,0~10VDC,4~20mA	
Accuracy	±3%@ 20°C & 20~80%RH	
Response time	≤10s(20°C,slow air flow)	
2 Temperature		
Sensor	Digital or thermal resistance, see Order Ref No	
Range	0~50°C,-20~60°C etc	
Output	4~20mA,0~10VDC,RS485/Modbus	
Thermal Resistance	See Order Ref No. and Thermal Resistance Indexing Table	
Accuracy	Digital type: ±0.5°C@20°C Thermal resistance type: typical: ±0.2~0.4°C@25°C,see Order Ref No.	
Power Supply	Voltage type/485 type: 15-35VDC24VAC+20% (isolated power supply is required for AC power supply)	Current type:18.5-35VDC(RL=500Ω)8.5-35VDC(RL=0Ω)
Output Load	≤500Ω(Current type), ≥2KΩ(Voltage type)	
Case Material	PCshell,PA6 probe rod,ABS protective cover	
Working Environment	-20~60°C,5%-95%RH(Non-condensing)	
Protection Level	Ip65	

LFH60

Magnetic Temperature and Humidity Transmitter

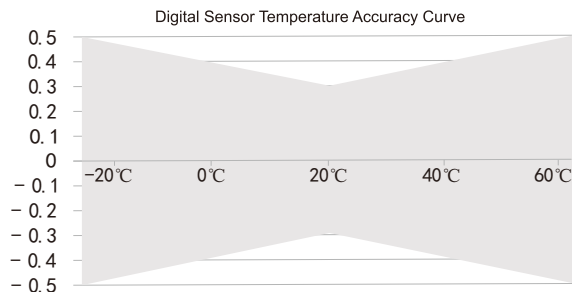


Dimension in : mm

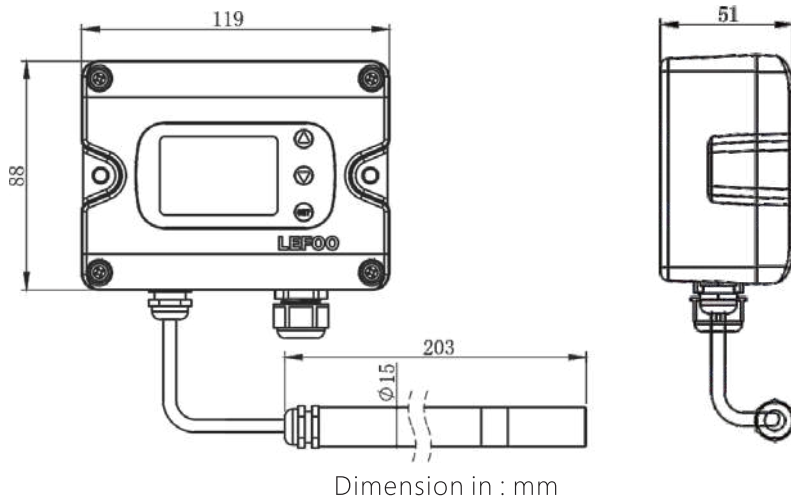
LFH60 Temperature and Humidity Transmitter adopts high-precision sensor, built-in temperature and humidity sensor, high precision, fast response speed, and good long-term stability. There are four powerful magnets on the back, which can be directly attached to the cabinet or wall-mounted, which greatly improves the installation efficiency. Can display temperature, humidity, address. The product is widely used in communication rooms warehouse buildings, libraries and other places.

Specification

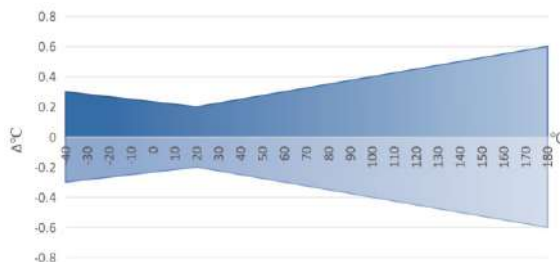
General	Value
(1)Relative humidity	
Sensor	Digital
Range	0%~100%
Output	RS485/Modbus
Accuracy	±3%@ 20°C&60%RH
(2)Temperature	
Sensor	Digital
Output	RS485/Modbus
Accuracy	±0.3°C@20°Csee table below
Power supply	9-26VDC
Display	Optional LCD display ,with unit display
Shell Material	ABS shell
Working Environment	-20~60°C,5%-95%RH(non-condensing)
Protection Level	Ip30



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Digital sensor temperature accuracy curve



ORDER REF NO.

Code and Description			Remark
LFH70-	RS	485	
	A4	4-20mA	Output
	V10	0-10V	

Note: The default length of split type cable is 1 meter, and the length can be added by meter basis, represented by number after the model. The default temperature range for voltage and current type is -20~60 °C, and can be reset by pressing any button.

Model selection example LFH70-A4-2, it means split type temperature and humidity transmitter, 4-20mA output, with LCD external button, customized wire length of 2 meters.

Specification

General	Value
(1)Relative Humidity	
Sensing element	High temp&humidity sensitive capacitor
Range	0-100%
Output	RS485,0-10V,4-20mA
Accuracy	≤90%RH@20°C ±2%RH >90%RH@20°C ±2.3%RH
Response time	≤10S
(2)Temperature	
Sensing element	PT1000
Probe operating temperature	-40-180°C
Output	RS485,0-10V,4-20mA
Accuracy	±0.2°C@20°C See accuracy curve chart
Power supply	15-35VDC/24VAC±20%
Operating temperature range of electronic components(with LCD)	-20-60°C
Relay	2xSPDT(3A-30VDC/250VAC)
Output Load	≤500Ω(current output) ≥10KΩ(Voltage output)

LFH70

High-temperature temperature & Humidity transmitter



LFH70 Temperature&humidity Transmitter is a highly reliable product developed for high-precision temperature and humidity measurement in fundamental industrial applications and climate control fields. its split probe can work in environments with temperatures up to 180 °C. The high-temperature humidity sensitive capacitor has high long-term stability, strong anti pollution ability, and excellent anti electromagnetic interference ability. Comparing to other HVAC transmitters, the innovative metal structure design gives LFH70 the advantage of stronger structure and longer duration in harsh working conditions.

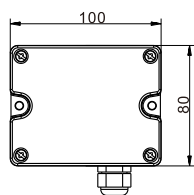
LFW10

Temperature Transmitter

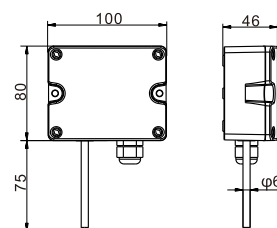


The LFW10 series temperature transmitter is a sensor specially designed for industrial applications. It is specially designed for lightning surge, electrostatic discharge, group pulse, pressure resistance, etc., and has strong anti-interference ability. There are five installation methods: wall mounted, airpipe/water pipe, split, and clamp. Three output modes of current, voltage, and thermal resistance are optional. Strong on-site trial installation capability. Spring screws and terminal posts are designed for quick installation. It can be widely used in computer rooms, HVAC, buildings, storage and other places where temperature measurement and control are required.

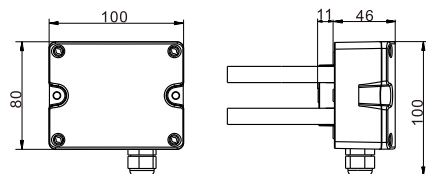
LEFOO



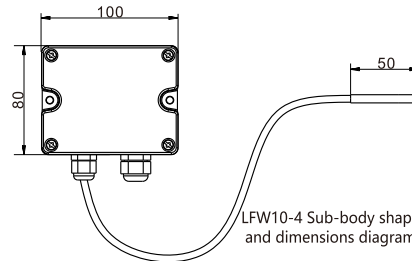
LFW10-2/LFW10-3 Dimensions of pipeline type



LFW10-1 Wall-mounted outline drawing



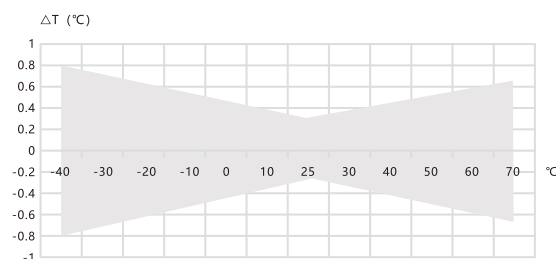
LFW10-5 Clamp type outline drawing



LFW10-4 Sub-body shape and dimensions diagram

Dimension in : mm

Temperature Accuracy Curve(Analog output model)



LFW10 Order Ref No

LFW10-2 - A4 1 2

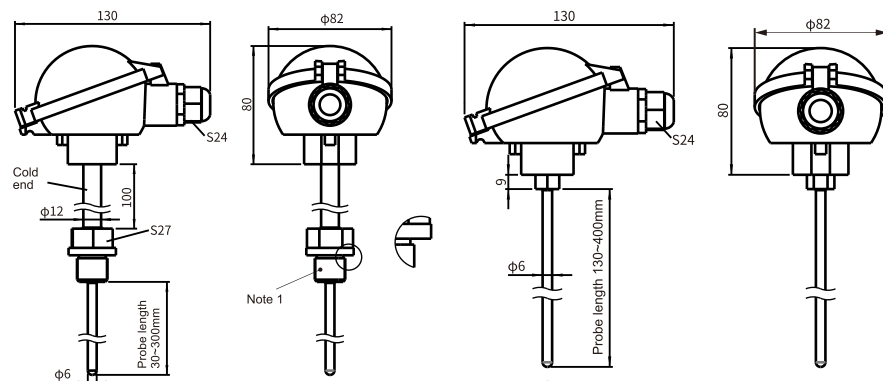
A B C

Model	A Humidity range	B Temperature range	C Probe length(LFW102/103)
LFW10-1=Wall Mounted Temperature Transmitter	V0=0~10VDC(3-wire)	0=Null	0=65MM
LFW10-2=Duct Type Temperature Transmitter	A4=4~20mA(2-wire)	1=0~50°C	1=100MM
LFW10-3=Water Pipe Type Temperature Transmitter	V5=0~5VDC(3-wire)	2=-20~60°C	2=200MM
LFW10-4=Split Type Temperature Transmitter	0=PT1000,±0.2°C@0°C	8=Others (Customer specified)	3=150MM
LFW10-5=Clamp Type Temperature Transmitter	1=PT100,±0.2°C @0°C		8=Others(available on request)
	2=NTC20K,±0.3°C@25°C		
	6=NTC10K,±0.3°C@25°C		

Specification

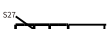
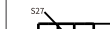
General	Value
Sensor	High-precision thermal resistance, see selection table (resistance output type)/PT1000, Class A (analog output type)
Output	Resistance value, please refer to the selection table and thermal resistance indexing table 4~20mA or 0~10VDC, 0~5VDC
Thermal Resistance	Please check the selection table and thermal resistance indexing table
Accuracy	Typical 0.2~0.5°C@0/25°C, see Order Reference No. ±0.3°C@25°C, see Temperature Accuracy Curve for details
Power Supply	Voltage type 15~35VDC/24VAC±20% Current type 18.5~35VDC (RL=500Ω) 8.5~35VDC (RL=0Ω)
Output Load	(Analog output type) ≤500Ω (Current type), ≥2KΩ(0~5V), ≥3KΩ(0~10V)
Housing Material	PC housing, stainless steel probe (6mm) and casing
Working Temperature	-40~70°C, 0~95%RH (Non-condensing)
Protection Grade	Ip65

LEFOO



• Sleeved Type •

• Direct Insert Type •

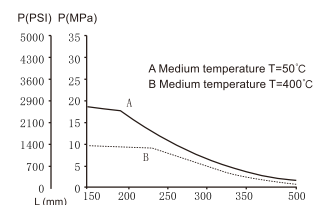
Thread Size					
Thread Spec	M27*2	M20*1.5	G1/2	G1/4	Clamp size 50.5MM

PARAMETRIC CURVE

Dimension in : mm

①Pressure resistance characteristics

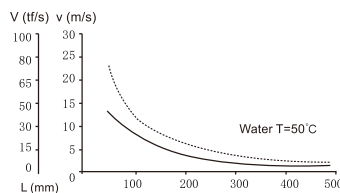
The pressure that protective tube withstand changes with the tube length (see the figure below)



Protective tube diameter 6MM, wall thickness 1.0MM,
L: immersion depth, P: process pressure

②Medium flow

The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)



Protective tube diameter 6MM, wall thickness 1.0MM,
L: immersion depth V: flow rate

LFW20 Order Ref No

LFW20	<u>A4</u>	<u>50</u>	<u>1</u>	<u>0</u>	<u>G2</u>	<u>0</u>	<u>L100</u>	<u>1</u>
	A	B	C	D	E	F	G	H

LFW20 Temperature Transmitter uses high-performance and highly reliable resistors, and the probe rod is integrally processed from 304 stainless steel. It has strong anti-pollution performance and excellent mechanical strength, and can work stably for a long time. A variety of installations are available, suitable for different working conditions, and are widely used in temperature measurement at industrial sites such as petroleum, chemical industry, electric power, hydrology, and HVAC.

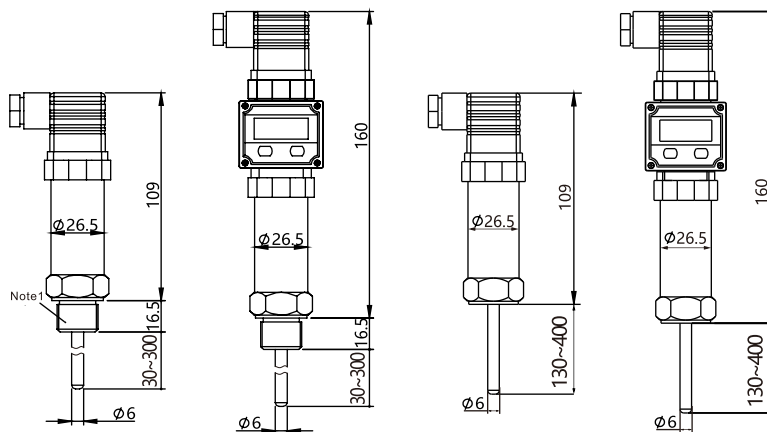
A Temperature Output	B Accuracy	C Temperature Range	D Wiring Box	E Installation Method		F Protective Tube	G Probe length (without thread)		H Code End
				SleevedType	Z=DirectInsertType		SleevedType	DirectInsertType	
A4=4~20mA(2-wired)	25 = 0.25%FS	0=0~100℃	0=Water-proof	G2=G1/2 male (fixed thread installation)		0=Without	L30=30mm	L130=130mm	0=Without cold end
V10=0-10V(3-wired)	50 = 0.5%FS	1=0~200℃(with cold end)		G4=G1/4 male (fixed thread installation)		1=With	L50=50mm	L200=200mm	1=Cold end length 100
RS=RS485/Modbus		2=0~300℃(with cold end)		M16=M16*1.5 male (fixed thread installation)			L100=100mm	L250=250mm	X=Customized
0=PT100,±0.2℃@0℃		3=-50~150℃(with cold end)		M20=M20*1.5 male (fixed thread installation)			L150=150mm	L300=300mm	
1=PT1000,±0.2℃@0℃		4=-50~300℃(with cold end)		M27=M27*2 male (fixed thread installation)			L200=200mm	L400=400mm	
X=Customized (temperature range -50~300℃)				K=Clamp (50.5MM)			L300=300mm	X=Customized	
							X=Customized		

Specification

General	Value
Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Measuring range	-50~300°C (see range parameter selection table for details)
Output signal	4~20mA / 0-10V / RS485 / PT100 / PT1000
Supply voltage	15~35VDC
Accuracy	0.25%FS、0.5%FS
Working environment	-40~85°C、0~95%RH(No condensation)
Housing material	Die-cast aluminum housing、304 stainless steel probe rod and casing
Protection level	Ip65. Note: this protection level refers to the level achieved after the electrical connection is complete

LFW21

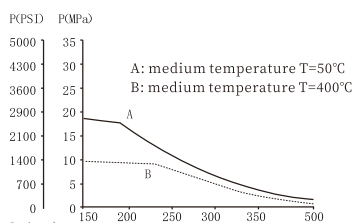
Integrated temperature Transmitter



	Integrated Type			Direct Insert Type
Thread Size				
Thread Type	M20*1.5	G1/2	G1/4	Clamp 50.5MM

PRESSURE RESISTANCE CHARACTERISTICS

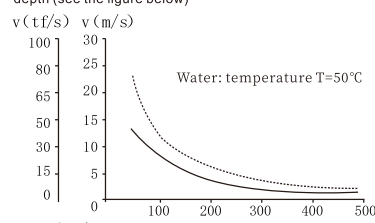
The pressure that protective tube withstand changes with the tube length (see the figure below)



Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth, P: process pressure

MEDIUM FLOW

The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)



Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth V: flow rate

Dimension in : mm

LFW21 integrated Temperature Transmitter uses a high-resolution and high-precision temperature sensor as the measuring element. The amplifier circuit is located in a 304 stainless steel housing to convert the sensor signal into an analog signal output. This product is widely used in temperature measurement at industrial sites such as petroleum, chemical industry, electric power, hydrology, etc.

LFW21 Order Ref No

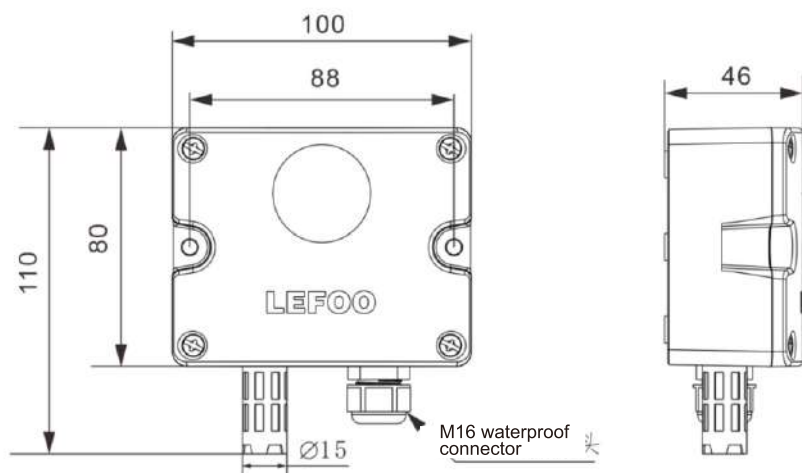
LFW21 A4 0 G2 0 L100 0
A B C D E F

A Temperature Output	B Temperature Range	C Installation Method	D Protective Tube	E Probe Length(excluding thread)	F Display
		Integrated Type Z=Direct Insert Type		Integrated Type Direct Insert Type	
A4=4~20mA(2-wire)	0=0~100°C	G2=G1/2 male (fixed thread installation)	0=without	L30=30mm	0=without
V10=0~10V(3-wire)	1=0~200°C	G4=G1/4 male (fixed thread installation)	1=with	L50=50mm	1=with
0=PT100,±0.2°C@0°C	2=-50~50°C	M20=M20*1.5 male (fixed thread installation)		L100=100mm	
1=PT1000,±0.2°C@0°C	3=-50~100°C	K=Clamp (50.5MM)		L150=150mm	
	4=-50~200°C			L200=200mm	
				L300=300mm	
				L400=400mm	
				L300=300mm	X=Customized
				X=Customized	

Specification

General	Value
Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Measuring range	-50~200°C (see OrderRef.No.)
Output signal	4~20mA / 0-10V / PT100 / PT1000
Supply voltage	15~33VDC
Accuracy	0.5%FS
Working environment	-40~85°C、0~95%RH(No condensation)
Shell material	304 stainless steel probe rod and casing,ABS Hirschmann connector
Protection level	Ip65 (without display).IP54 (with display) Note: The above protection level refers to the level achieved after the electrical connection is complete.

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Dimension in : mm

WIRING INSTRUCTIONS

RS485 digital output type wiring		
power supply	red	positive Power
	black	negative power
communication	green	485-A
	white	485-B

Voltage/Current Analog Output Type Wiring		
power supply	red	positive Power
	black	negative power
communication	green	Voltage/Current Output Positive
	white	Voltage/Current Output negative

LFG101

Wall-mounted Carbon Monoxide Transmitter



LFG101 Wall-mounted Carbon Monoxide Transmitter uses electrochemical principle to detect carbon monoxide in the air, with good selectivity and stability. Three output modes of current, voltage and RS485 are optional, wide voltage power supply and power supply anti-reverse connection protection. It is suitable for carbon monoxide gas monitoring in indoor air quality detection, air conditioners, air purifiers, underground parking lots and other occasions.

LFG101Series Order Ref NO

LFG101 - 1 A4

A B

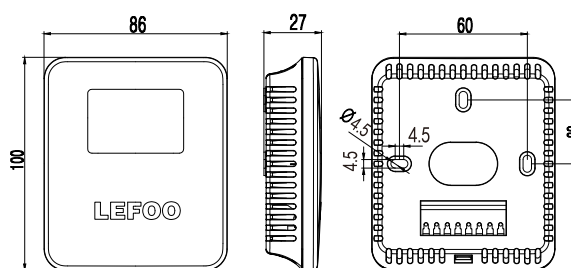
A Range	B Output
1=500ppm	V0=0~5V
2=1000ppm	V10=0~10V
	A4=4~20mA
RS=RS485/Modbus	

Specification

General	Value			
Output	4~20mA(3-wire)	0~5V(3-wire)	0~10V(3-wire)	RS485(4-wire)
Working Voltage	10-30Vdc	10-30Vdc	16-30Vdc	10-30Vdc
Working Temperature	-10°C~50°C			
Working Humidity	15%~90%RH			
Work pressure	1atm(Standard Atmospheric Pressure)±10%			
Measured Concentration	0-500ppm/0-1000ppm			
Accuracy	±5%F.S@25°C			
Response time(T ₉₀)	≤15s			
IP grade	Ip6x			
Service life	>5 years			

LFG103

Indoor carbon
Monoxide transmitter



Dimension in : mm

The LFG103 indoor carbon monoxide transmitter uses a high-performance electrochemical sensor to measure the concentration of carbon monoxide in the environment, with rapid response, stable performance and high accuracy, wide power supply range, perfect overvoltage and reverse connection protection. it has current & voltage or RS485 output signal, configurable relay action point, and has independent control/alarm function. This product can be widely used in HVAC systems, kitchen restaurants, workshops, underground parking lots, etc.

LFG103 Order Ref No

LFG103- 3 - IV - D - R

A B C D

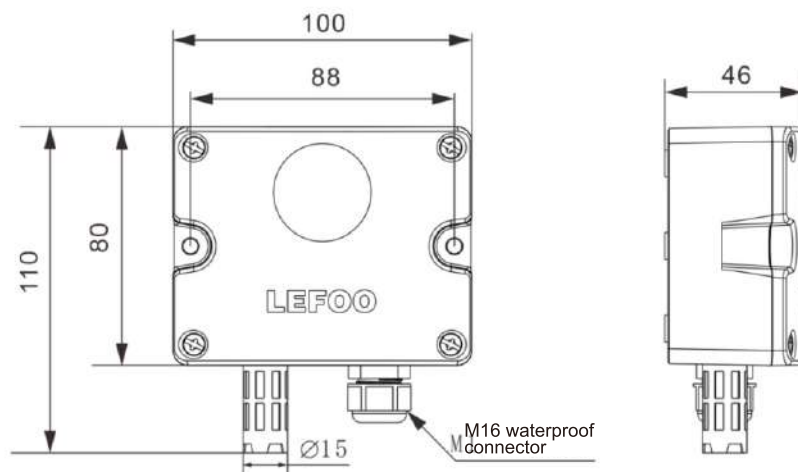
A Range	B Output	C Display	D Relay
1=100ppm	IV=4~20mA&0~10V	D=With display	R=1xSPDT
2=250ppm	RS=RS485/Modbus	N=Without display	N=No relay
3=400ppm			

Specification

General	Value
Sensor	Electrochemical sensor with a typical lifetime of 5 years
Range	0~100ppm/0~250ppm/0~400ppm
Accuracy	±5%FS
Response Time(T_{90})	≤60s
Preheat Time	2min
Power Supply	15~36VDC/24VAC±20%
Output Mode	4~20mA&0~10V RS485
Relay	1xSPDT 3A/30VDC3A/250VAC
Working Environment	0~50°C&15~90%RH(non-condensing)(continued)/-10~60°C&0~95%RH(non-condensing)(Intermittent)
Storage Temperature	-10~60°C(long term storage: 5~30°C(Within 6 month))
Degree of Protection	Ip30
Shell Material	PC

• Note: When AC power is used for RS485 output products, isolated 24VAC power should be used!

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Dimension in : mm

LFG201

Wall-mounted Carbon Dioxide Transmitter



WIRING INSTRUCTIONS

RS485 digital output type wiring		
power supply	red	positive Power
	black	negative power
communication	green	485-A
	white	485-B

Voltage/Current Analog Output Type Wiring		
power supply	red	positive Power
	black	negative power
communication	green	Voltage/Current Output Positive
	white	Voltage/Current Output negative

LFG201 Wal-mounted Carbon Dioxide Transmitter is based on the fact that different gases have different absorption capabilities for infrared light in a specific band. It measures the concentration of the measured gas by measuring the degree of infrared light absorption. Compared with electrochemical sensors, it has the characteristics of long life and good stability, wide power supply range and power supply anti-reverse connection protection. It is suitable for indoor air quality detection, air conditioners, air purifiers, vegetable greenhouses and other occasions to measure carbon dioxide gas.

LFG102Series Order Ref NO

LFG102 - 2 A4

A B

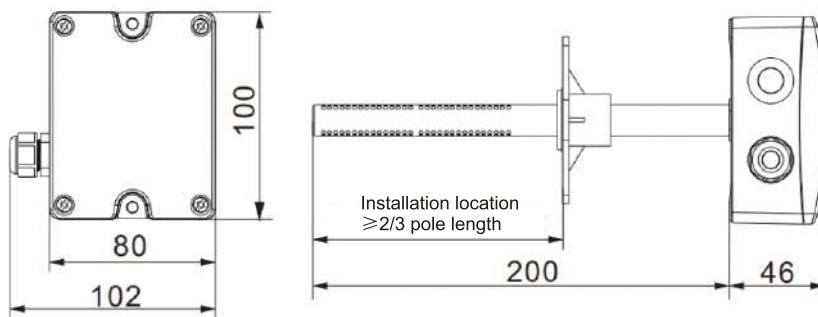
A Range	B Output
1=2000ppm	V0=0~5V
2=5000ppm	V10=0~10V
3=10000ppm	A4=4~20mA
RS=RS485/Modbus	

Specification

General	Value			
Output	4~20mA(3-wire)	0~5V(3-wire)	0~10V(3-wire)	RS485(4-wire)
Working Voltage	10-30Vdc	10-30Vdc	16-30Vdc	10-30Vdc
Working Temperature	-10°C~50°C			
Working Humidity	0-80%RH(no condensation)			
Accuracy	0-2000PPM/0-5000PPM/0-10000PPM			
Measured Concentration	±(40PPm+3%Fs)@25°C			
Preheat Time	2min(available)-10min(maximum accuracy)			
Protection Level	Ip6x			
Service life	>5 years			

LFG202

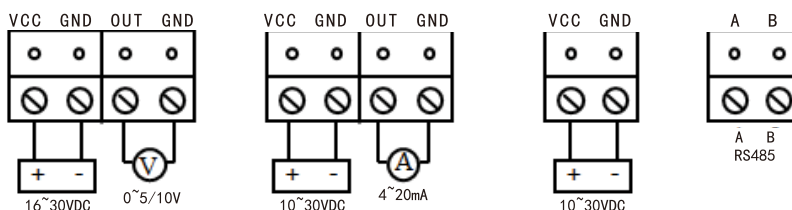
Duct Carbon
Dioxide Transmitter



LEFOO

WIRING INSTRUCTIONS

Depending on the selection, the wiring methods will be different, The following diagrams show the wiring methods of voltage output, current output, and RS485 output:



Dimension in : mm

LFG202 Duct Carbon Dioxide Transmitter is based on different gases having different absorption capabilities for infrared light in a specific band. It measures the concentration of the measured gas by measuring the degree of infrared light absorption. Compared with electrochemical sensors, it has long life and good stability. The imported high-performance NDIR sensor is used for CO₂ concentration measurement, with rapid response, stable performance and high accuracy; wide power supply range and high protection level of the shell, which can adapt to various harsh conditions on site. It can be widely used in the measurement of CO₂ concentration in ducts, offices, factory workshops, laboratories and other environments.

LFG202Series Order Ref NO

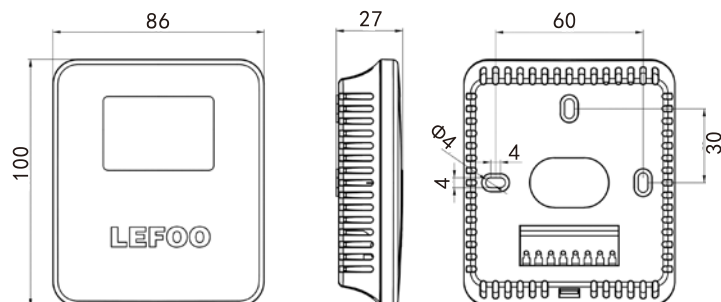
LF202 - 1 - V10
A B

A Range	B Output
1=2000ppm	V0=0~5V
2=5000ppm	V10=0~10V
	A4=4~20mA
	RS=RS485/Modbus

Specification

General	Value
Output Mode	4~20mA(3-wire) 0~5V(3-wire) 0~10V(3-wire) RS485(4-wire)
Working Voltage	10-30Vdc 10-30Vdc 16-30Vdc 10-30Vdc
Sensor	NDIR sensor with ABC self-calibration
Average Current	<40mA
Working Temperature	0°C~50°C
Working Humidity	0-85%RH(no frost)
Measure Concentration	0-2000PPM/0-5000PPM
Accuracy	±(40PPm+ 3%MV)ppm
Response Time	2min
Protection Class	shellIP65/Probe IP30
Electromagnetic Compatibility	EN 61326-1
Service Life	>5 years

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Dimension in : mm

LFG203

Indoor Carbon Dioxide Transmitter



LFG203 Indoor Carbon Dioxide Transmitter, based on principle the different gases have different absorption capabilities or infrared light in a specific band, it measures the concentration of the measured gas by measuring the degree of infrared light absorption. Compared with electrochemical sensors it has long life and stability, Imported high-performance NDIR sensor is used for CO concentration measurement, with rapid response stable performance and high accuracy wide power supply range, small size, easy installation, ideal for indoor carbon dioxide measurement. It is widely used to measure the CO2 concentration in environments such as home, office, factory floors, library warehouses, etc

LFG203Series Order Ref NO

LFG203 - 1 - V10 - D

A B C

A Range	B Output	C Display
1=2000ppm	V0=0~5V	D=With display
2=5000ppm	V10=0~10V	N=No display
	A4=4~20mA	
	RS=RS485/Modbus	

Specification

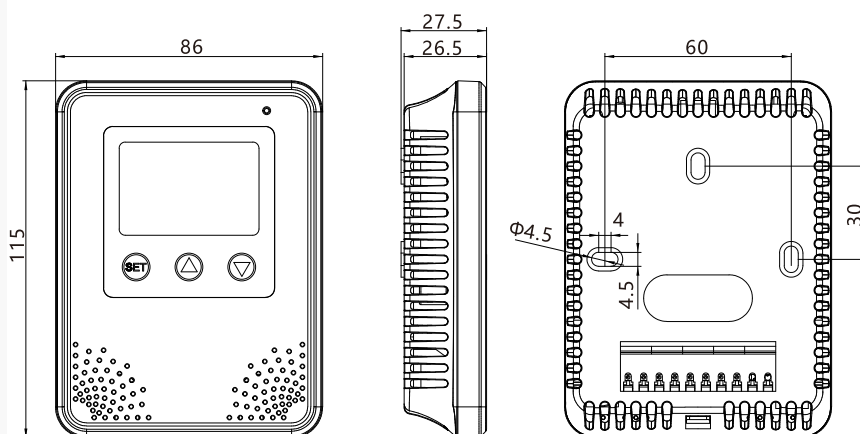
General	Value			
Output Mode	4~20mA(3-wire)	0~5V(3-wire)	0~10V(3-wire)	RS485(4-wire)
Working Voltage	10-30Vdc	10-30Vdc	16-30Vdc	10-30Vdc
Sensor	NDIR sensor with ABC self-calibration			
Average Current	<45mA			
Working Temperature	0°C~50°C			
Working Humidity	0-80%RH(no condensation)			
Measure Concentration	0-2000PPM/0-5000PPM			
Accuracy	±(40PPm+ 3%MV)ppm			
Response Time	2min			
Protection Level	Ip30			
Service Life	>5 years			

LFG303

Indoor dust Transmitter/Controller



LFG303 PM2.5/PM10 Indoor Dust Transmitter/Controller uses a laser dust sensor to measure the concentration of PM2.5 or PM10 in the environment. The sensor has a long service life, is maintenance-free, responds quickly, has stable performance and high accuracy. It has a wide power supply range, complete overvoltage and reverse connection protection, and can provide current and voltage or RS485 output signals. If chose the relay output, it will be equipped with a display screen and buttons to set different relay working modes, and with the buzzer, it can be realized Comprehensive independent control/alarm function; provides six-color LED indicators to visually indicate the degree of environmental pollution; is compact and easy to install; can be widely used in various commercial complexes, smart building office environments, hospitals, schools and other places Air quality monitoring.



Dimension in : mm

LFG303 Order Ref No

LFG303- IV0 - D - R

A B C

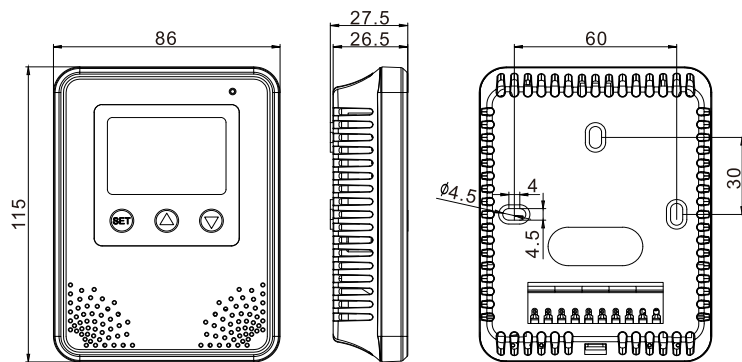
A Type	B Display Button	C Relay & buzzer(optional when equipped with display button)
IV0=4~20mA&0~10V@PM2.5	D=With display button	R=1xSPDT+1xbuzzer
IV1=4~20mA&0~10V@PM10	N=Without display button	S=1xSPDT
RS=RS485/Modbus		N=No

Specification

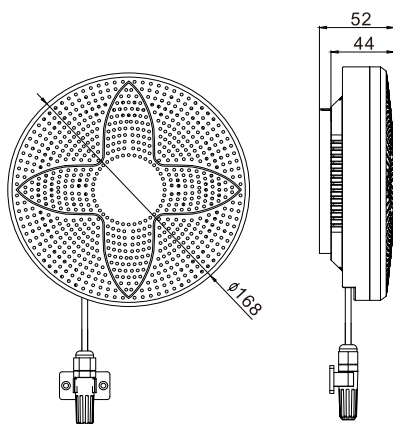
General	Value
Sensor	Laser dust sensor, detecting particle size 0.3~10μm
Sensor life	Mean time between failures ≥ 3 years
Measuring range	PM2.5: 0~500μg/m3,particle size 0.3~2.5μm Pm10: 0~600μg/m3,particle size 0.3~10μm
Accuracy/Consistency	PM2.5:±10μg/m3@0~100μg/m3,±10%FS@100~500μg/m3,@25℃
Resolution	1μg/m3
Preheat time	≤2min
Response time	Continuous measurement mode single response time <1S, comprehensive response time <10S
Power supply	15~36VDC / 24VAC±20%
Output Mode	4~20mA&0~10V RS485
Relay	1xSPDT 3A/30VDC 3A/250VAC
Working environment	0~50℃&0~95%RH(no condensation)
Storage temperature	-20~60℃&0~95%RH(no condensation)
Display and keys	The equipment can set parameters such as relay working mode
LED indicator light	Green:Good Yellow:Moderate Orange:Sensitive Red:Poor Purple:Unhealthy Crimson:Hazardous
Protection level	Ip30
Shell material	PC

Note: When using AC power supply for RS485 output products, an isolated 24VAC power supply is required!

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LFG601 Indoor type



LFG602 Top-suction type

Dimension in : mm

LFG60

All-in-one air quality
Transmitter



LFG60 AI-In-One Air Quality Transmitter is used to detect a variety of air quality parameters, including temperature and humidity, CO₂, PM_{2.5}, PM₁₀, VOC, formaldehyde, up to 7 parameters; optional isolated/non-isolated RS485 output, built-in Modbus protocol, realize real-time detection of multi-point distribution data. indoor type can be equipped with display screen and keys, and the split screen can display air quality parameters. By configure communication parameters, the three-color LED indicator can be equipped to directly indicate the air quality situation ;both indoor type and top suction type can configure RS485 communication address through dialing code. The product has wide power supply range and perfect overvoltage and reverse connection protection ;it can be widely used in multi-parameter air quality monitoring in various commercial complexes, intelligent building, office environment ,hotels,airports and schools.

LFG60 Order Ref No

LFG60 1- 1 1 1 1 1 - RS0 - D - L
A B C D E F G H I

A Installation method	B Temp&RH	C CO ₂	D PM	E VOC	F Formaldehyde
1=Indoor type	0=N/A	0=N/A	0=N/A	0=N/A	0=N/A
2=Top suction type	1=T&RH	1=CO ₂	1=PM _{2.5} &PM ₁₀	1=VOC	1=HCHO
G Output	H Display button(for Indoor Type)	I Indication light(for Indoor Type)			
RS0=Non-isolated RS485	D=With display button	L=With 3-color LED			
RS1=Isolation type of RS485	N=Without display buttons	N=None			

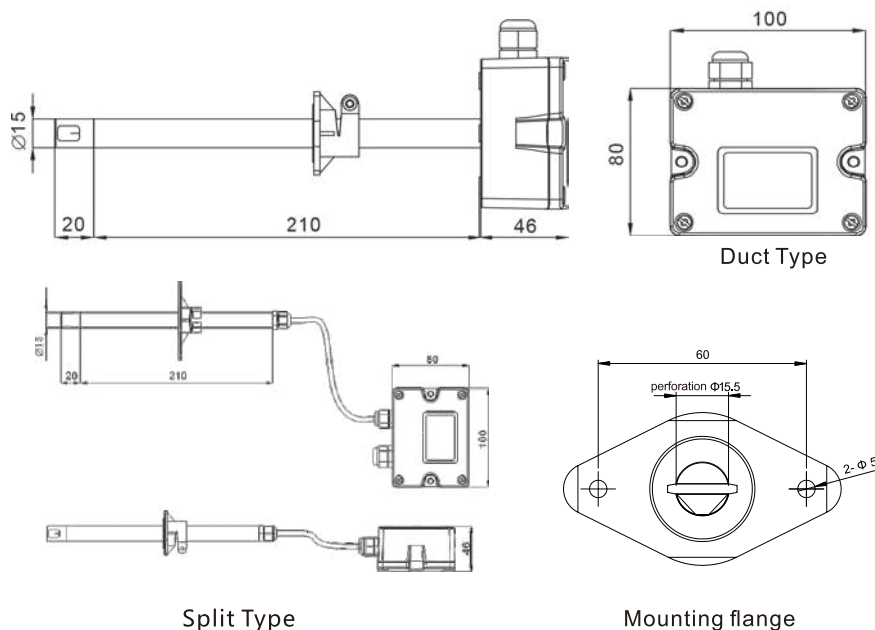
Specification

Temperature		Relative humidity	
Sensor	Digital temperature sensor	Sensor	Digital humidity sensor
Range	0~50℃	Range	0~100%RH
Accuracy	±0.5℃@20℃；≤±1℃@0~50℃	Accuracy	Typical±3%RH@20℃&20to80%RH
Response time	10~30S (20℃, slow flow air)	Response time	≤10S (20℃, slow flow air)
PM2.5/PM10			
Sensor	Laser dust sensor, detection particle size 0.3~10μm		
Range	PM2.5:0~500μg / m³, with a particle size of 0.3~2.5μm		
	PM10:0~600μg / m³, particle size 0.3~10μm		
Precision/consistency	PM2.5: ±10μg / m³@0~100μg /m³, ±10%FS@100~500/600μg /m³, @25℃		
Resolution ratio	1μg /m³		
Response time	Continuous measurement mode with single response time <1S, Integrated response time <10S		
CO2			
Sensor	The NDIR sensor, with the ABC self-check function		
Range	0~5000ppm		
Accuracy	(±40ppm±3%MV)ppm		
Response time (T ₉₀)	2min		
VOC		Formaldehyde	
Sensor	Metal oxide semiconductor gas sensor	Sensor	Electrochemical-type gas sensor
Range	0~2ppm	Range	0~1ppm
Resolution ratio	1ppb	Accuracy	±10%FS@25℃
Preheating time	First power-up for 1 hour; pre-heat for 3min	Response time (T ₉₀)	<120S

Power Supply Voltage	12~36VDC / 24VAC±20%
Output Signal	Isolation / non-isolated RS485
Work Environment	0~50℃ & 0 ~ 95% RH (no condensation)
Storage Temperature	-20~60℃ & 0 ~ 95% RH (no condensation)
Display and Buttons	Indoor type can be optional
LED pilot lamp	Indoor type can be optional Green: good air quality yellow: air quality is generally red: poor air quality
Levels of Protection	IP30
Way to Install	Indoor type, Top-suction type
Case Material	Indoor type: PC Top-suction type: ABS
Weight	Indoor type: 148g Top-suction type: 235g

Note: When using 24VAC as the power supply, it need be an isolated power supply.

LEFOO



Dimension in : mm

LFS10 Wind Velocity Transmitter



Based on heat conduction principle, the sensor probe of Air Velocity Transmitter LFS10 is made of MEMS technology, which has the characteristics of high measurement accuracy, wide measurement range, good stability and strong environmental adaptability. It is an ideal choice for wind speed measurement in HVAC, duct air volume measurement, process and environmental control and other applications.

LFS10 Order Ref NO

LFS101 - RS 1 D
A B C

A Output	B Installation method	C Display
V1=0~10VDC/4~20mA	1=Duct Type Air Velocity Transmitter	D=with display
RS=RS485/Modbus	2=Split Type Air Velocity Transmitter	N=without display

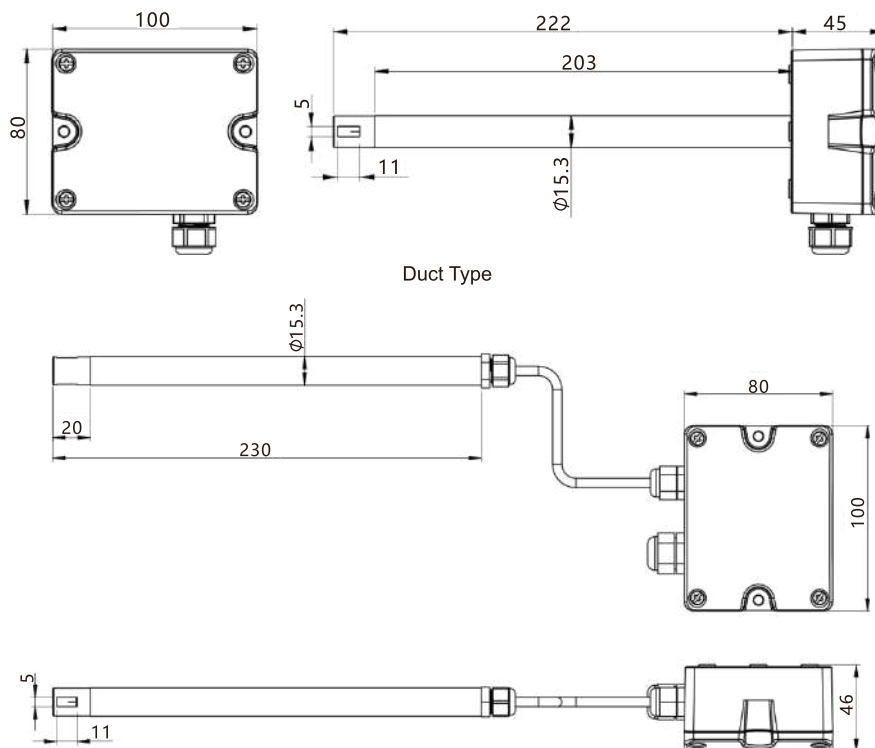
Specification

General	Value
Working Voltage	24V AC/DC±20%
Range①	0-10m/s,0-15m/s,0-20m/s,0-30m/s
Accuracy	±(0.2m/s+3%of mv)(20°C,45%RH and 1013hPa)
Resolution	0.01m/s
Output Mode	RS485/Modbus,0~10VDC/4~20mA(3-wire)
Output Load	≤500Ω/(Current output), ≥2KΩ(Voltage output)
Working Temperature	-10~60°C
Storage Temperature	-20~80°C
Probe Length	210mm(optional)
Display	Optional LCD display with unit display and backlight
Protection Level	Shell IP65,Probe IP20
Housing Material	Shell PC, Probe Pa6
Electromagnetic Compatibility	EN 61326-1
Certification	RoHS, EU Electrical Safety Standards CE

① Can be selected by jumper (Analog output version)

LFS11

Low air velocity Transmitter



Duct Type

Split Type

Dimension in : mm

LFS11 Low Air Velocity Transmitter is designed for accurate measurement of very low air velocity , and still has high measurement accuracy in application where air velocity is less than 0.15m/s.LFS11 uses a high-quality hot film sensor manufactured based on MEMS technology, which has the characteristics of high measurement accuracy, good stability and strong environmental adaptability, which is ideal for laminar flow monitoring and special ventilation applications, mainly used in key environments such as medical institutions, laboratories, and pharmaceutical industry.

LFS11 Order Ref No

LFS11- RS 1 D

A B C

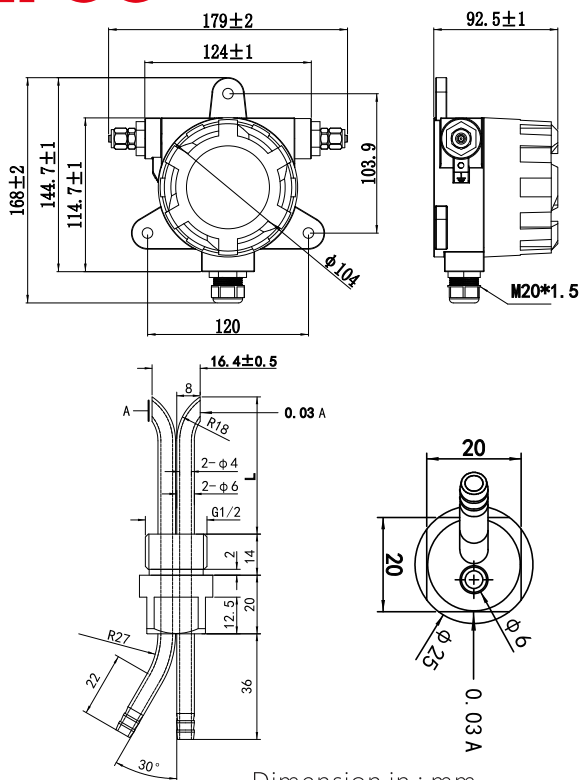
A Output	B Installation method	C Display
VI=0~10VDC/4~20mA	1=Duct Type Low Air Velocity Transmitter	D=with display
RS=RS485/Modbus	2=Split Type Low Air Velocity Transmitter	N=without display

Specification

General	Value
Working voltage	12-30VDC/24VAC($\pm 20\%$)
Range ^①	0-1m/s,0-1.5m/s,0-2m/s optional
Accuracy	$\pm (0.04\text{m/s} + 3\% \text{ of mv}) (20^\circ\text{C}, 45\% \text{RH and } 1013\text{hPa})$
Resolution	0.01m/s
Output mode	RS485/Modbus,0~10VDC/4~20mA (Voltage and current dual output) optional
Output load	$\leq 250\Omega$ (Current mode), $\geq 5\text{K}\Omega$ (Voltage type)
Working temperature	-10 ~ +60°C
Storage temperature	-20 ~ +80°C
Probe length	210mm(optional)
Display	Optional LCD display with unit display and backlight
Protection	IP65,IP20(Probe)
Sheathing material	PC, PA6(Probe)
Certification	ROHS , EU Electrical Safety Standards CE

① Can be selected by jumper

LEFOO



Dimension in : mm

LFS71 Order Ref No

LFS71 - 2 A
A B

LFS71

Explosion-proof air
Velocity transmitter



LFS71 Explosion-proof Air Velocity Transmitter is suitable for gas flow measurement in Explosion-proof environments. It can convert the flow rate of gas into an electrical signal and transmit it to the control system. The range can be adjusted on-site through buttons, and the IP65 protection grade casing is used. It is suitable for energy management systems, VAV and fan control, environmental pollution control, smoke hood control, oven and boiler ventilation control and other fields.

A Air Velocity Range

1=0~10m/s

2=0~20m/s

3=0~30m/s

4=0~40m/s (L-type pitot tubes only)

X=Customized

B Output Mode

A=4~20mA

B=0~10VDC

C=RS-485

Specification

General	Value
Medium	Air or neutral gas
Range	Speed:0~10 m/s,0~20 m/s,0~30 m/s, 0~40 m/s (Range can be customized.)
Over Voltage	10KPa
Accuracy	±3.0%FS(Speed > 3 m/s)
Operating temperature	Host machine:-20°C~80°C;Probe: -40°C~450°C
Compensation Temperature	-10°C~60°C
Storage Temperature	Host machine:-40°C~85°C
Response Time	0.5s(default)/1.0s /2s /4s
Protection Grade	Ip65
Pressure Connection	Stainless steel 1/2" quick connection
Signal output	4~20mA/0~10VDC/RS485
Power Supply ^①	12~30VDC/24VAC±20%
Power Consumption	≤1.5W
Shell Material	Cast Aluminium
Communication	RS-485 standard interface, Modbus RTU protocol
Certificates	ROHS,CE
Explosion-Proof Grade	Exd IIC T6 Gb
Display	LCD digital display
Weight (Approximate)	Host machine:1238g

①When the product is powered by AC power, it is recommended to use an isolated AC power supply.

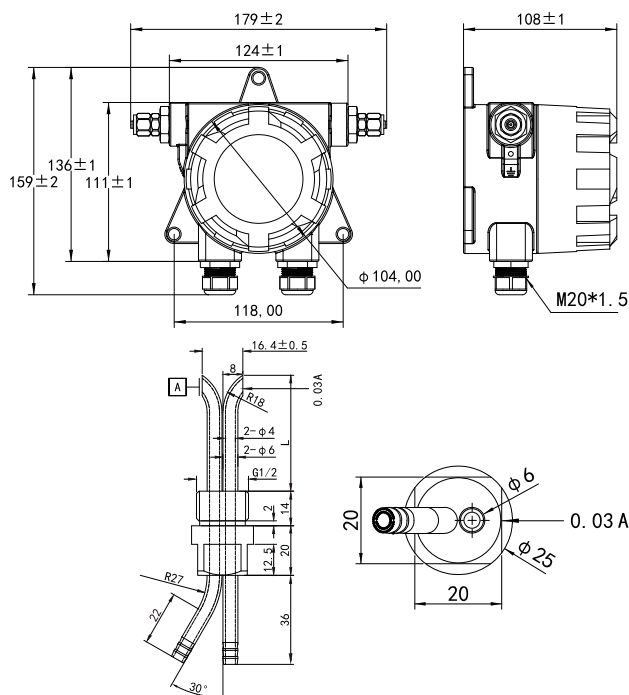
www.lefoo.com

LFS72

Explosion-proof air Velocity transmitter



LFS72 Explosion-proof Air Velocity Transmitter is suitable for gas flow measurement in Explosion-proof environments. It can convert the flow rate of gas into an electrical signal and transmit it to the control system, The range can be adjusted on-site through buttons, and the IP65 protection grade casing is used. it is suitable for energy management systems, VAV and fan control, environmental pollution control, smoke hood control, oven and boiler ventilation control and other fields.



Dimension in : mm

LFS72 Order Ref No

LFS72 - 2 A
A B

A Air Velocity Range	B Output Mode
1=0~10m/s	A=4~20mA /RS485
2=0~20m/s	B=4~20mA /0~10VDC
3=0~30m/s	C=0~10VDC/RS-485
4=0~40m/s (L-type pitot tubes only)	
X=Customized	

Specification

General	Value
Medium	Air or neutral gas
Range	Speed:0~10 m/s,0~20 m/s,0~30 m/s, 0~40 m/s (Range can be customized.)
Over Voltage	10KPa
Accuracy	±3.0%FS(Speed > 3 m/s)
Operating temperature	Host machine:-20°C~80°C;Probe: -40°C~450°C
Compensation Temperature	-10°C~60°C
Storage Temperature	Host machine:-40°C~85°C
Response Time	0.5s(default)/1.0s /2s /4s
Protection Grade	Ip65
Pressure Connection	Stainless steel 1/2" quick connection
Signal output	4~20mA/0~10VDC/RS485
Power Supply ^①	12~30VDC/24VAC±20%
Power Dissipation	≤1.5W
Shell Material	Cast Aluminium
Communication	RS-485 standard interface, Modbus RTU protocol
Certificates	ROHS,CE
Explosion-Proof Grade	Exd IIC T6 Gb
Display	LCD digital display
Weight (Approximate)	Host machine:1362g

①When the product is powered by AC power, it is recommended to use an isolated AC power supply.

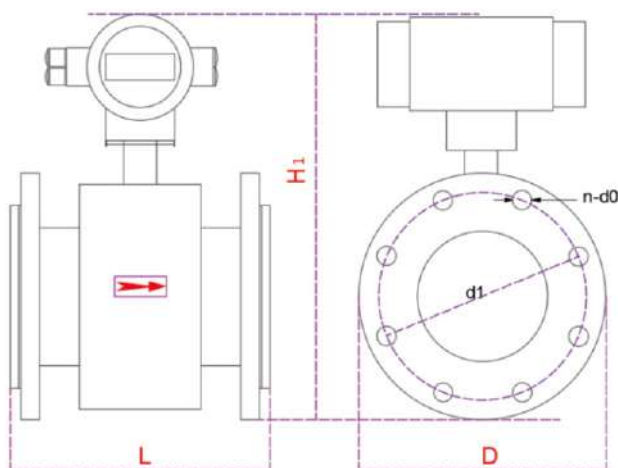
FEATURES

- High accuracy, Linearity and Stability.
- Good reliability and Anti-interference performance.
- Good pressure sealing and High intelligence.
- No pressure loss, lower requirements for straight pipe section.
- Good corrosion resistance and wear resistance.
- The converter can be in the same shape or separate form with the sensor.
- Two-way measurement system, which can measure forward flow and reverse flow.
- Special production process and high quality materials are adopted to ensure that the performance of products remains stable for a long time.

SPECIFICATION

Latus rectum	10~3000mm
Output Signal	4~20mA, HART, RS485
Comprehensive precision	0.5
Power Supply	220VAC, 24VDC
Nominal pressure	1.6MPa, 1.0MPa, 0.6MPa
Lining material	Neoprene rubber, polytetrafluoroethylene, polyammonia-vinegar rubber, polyperfluorinated ethylene propylene, PFA, ceramics, etc
Connecting flange material	Carbon steel, stainless steel(304, 316, 316L)
Signal electrode form	Fixed, scraper type
Protection	IP65, IP68
Transmission distance	Split type electromagnetic flowmeter. The sensor and converter are connected by a signal cable, the cable length should be less than 100m
Peak flow rate	15m/s
Electrical Connection	Terminal
Electrical Connection	$\geq 50\mu S/cm$
Consumed power	$< 20W$
Environmental temperature	$-25^{\circ}C \sim 60^{\circ}C$
Electrode material	316L, HastelloyB, HastelloyG, Titanium, tantalum, platinum-iridium alloy, tungsten carbide
Ground ring material	Stainless steel 1Cr18Ni9Ti
Number of electrodes	Standard 3 electrodes (two measuring electrodes, one impact electrode)
Certification	CE, ROHS

DIMENSION



LFLD Electromagnetic Flowmeter



APPLICATION

- Chemical fiber, food, paper making, sugar, mining and metallurgy, water supply and drainage, environmental protection.
- Hydraulic engineering, iron and steel, petroleum, pharmaceutical, beer, wort, all kinds of drinks.
- Corn pulp, fiber pulp, syrup, lime milk, sewage, cooling raw water.
- Drainage, salt water, hydrogen peroxide, black liquor and other conducting fluid media flow.

ORDER REF NO.

Code and description										Type
LFLD										Electromagnetic flowmeter
DN	10 · · · 200 · · · 3000									Diameter
	1.6	(DN10–DN200)								Nominal pressure
	1.0	(DN250–DN1000)								
	0.6	(DN1200–DN2000)								
	0.6	(DN2200–DN3000)								
	XX	Special customized								
	1	Teflon(HG)								Lining material
	2	Polychloroprene rubber								
	3	polyurethane								
	4	Polyperfluoroethylene propylene								
	5	And network PFA								
	1	Stainless steel0Cr18Ni12Mo2T			4	titanium	7	Stainless steel coated with tungsten carbide		Electrode materials
	2	The type of alloyB			5	Platinum-iridium alloy				
	3	The type of alloyC			6	tantalum				
	1	I P65								Shell protection
	2	IP68+1P65 (The sensor is polychloroprene rubber sensor IP68+ converter IP65 or polyurethane -explosion-proof separation type is optional)								
	0	None								Explosion-proof marks
	1	Exdm IICT4 (No acetylene) (A shape, I P65、Magnetic bond or no display)								
	2	Exdm IICT4 (No acetylene) (separation type, IP65、Magnetic bond or no display)								
	3	Exdm IIT4 (No acetylene) (separation type、I P65、Converter in safe zone)								
	0	None		2	grounding electrode		4	Electrode scraper mechanism		Attachment
	1	grounding electrode		3	Inlet protection flange					
	1	Erseparation type, Chinese and English Menu								Structure
	2	Eh A shape, Chinese and English Menu								
	☆ Separate type special cable with meter 10M , More than 10 M needs to be customized.									
	1	85–265V		45–400Hz						Power
	2	11–40VDC								
	MA	MA Key, double line display, output standard								Converter form
	MB	MB Key, double line display, output standard, RS485								
	LA	LA Key, double line display, output standard								
	LB	LB Key, double line display, output standard, RS485, HART								
	AA	AA Key, English menu, double line display, output standard, RS232								

LFLD-DN50	1.6	1	1	1	1	0	1	1	MA	Selection example
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FEATURES

- High accuracy, linearity and stability
- Simple and firm structure, no moving parts, high reliability
- Good reliability and anti-interference performance.
- Wider range of applications, the flow of steam, gas and liquid can be measured.
- Smaller pressure loss, lower operating cost and more energy saving

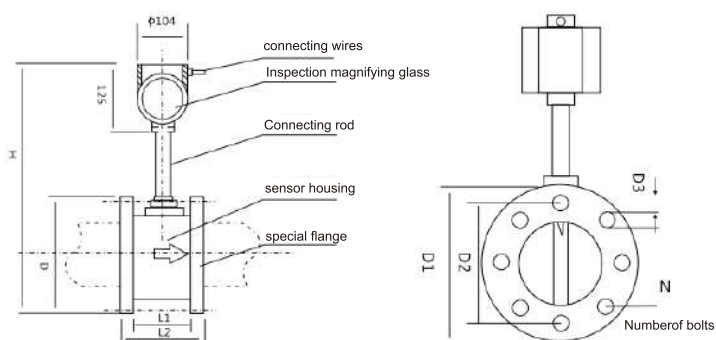
SPECIFICATION

Path	10-300mm
Maximum flow rate	10m/s
Output signal	4-20mA, HART protocol, RS485
Electrical Connections	Terminals
Comprehensive accuracy	1.0
Fluid conductivity	$\geq 5\mu S/cm$
Power supply	220VAC, 24VDC
Power consumption	$\leq 20W$
Power consumption	4.0MPa, 2.5MPa, 1.6MPa, 0.6MPa
Ambient temperature	-25°C ~ 60°C
Ambient temperature Carbon steel	stainless steel (304, 316, 316L)
Ambient temperature	IP65
Certification	CE ROHS

PATH PARAMETERS

Path(mm)	Liquid (test medium, normal temperature water)		Gas (Test medium: 20 °C, air under 101325Pa)	
	Standard	Extended		
15	0.8-6	0.5-8	6-40	5-50
20	1-8	0.6-12	8-50	6-60
25	1.5-12	0.8-16	10-80	8-120
40	2.5-30	2-40	25-200	20-300
50	3-50	2.5-60	30-300	25-500
65	5-80	4-100	50-500	40-800
80	8-120	6-160	80-800	60-1200
100	12-200	8-250	120-1200	100-2000
125	20-300	12-400	160-1600	150-3000
150	30-400	18-600	250-2500	200-4000
200	50-800	30-1200	400-4000	350-8000
250	80-1200	40-1600	600-6000	500-12000
300	100-1600	60-2500	1000-10000	600-16000
400	200-3000	120-5000	1600-16000	1000-25000
500	300-5000	200-8000	2500-25000	1600-40000
600	500-8000	300-10000	4000-40000	2500-60000

DIMENSION



APPLICATION

- Paper making, sugar making, mining and metallurgy, water supply and drainage, environmental protection.
- Water conservancy, steel, petroleum, pharmaceuticals, various beverages
- Heat supply, air supply, hot steam, saturated steam, compressed air



ORDER REF NO.

Code and description											Type		
LFLUGB											Vortex flowmeter		
DN	10 ··· 100 ··· 600										Diameter		
	1	304									Flange material		
	2	316											
		1	Liquid									Measured medium	
		2	Gas										
		3	Steam										
			1	No temperature compensation								Temperature compensation	
			2	With temperature compensation									
				1	24V DC							power supply	
				2	3.6V								
					1	4 ~20mA two-wire system						Output signal	
					2	4 ~20mA+ HA RT two-wire system							
					3	RS485/Modbus four wire-system							
					4	Frequency／Pulse output							
					5	Customizable							
						1	LCD display momentarily/Cumulative flow					Display method	
						2	Customizable						
							1	1%FS				Accuracy	
							2	1.5%FS					
								1	Within M20*1.5			Electrical connection	
								2	Customizable				
									1	1.6MPa		Pressure level	
									2	2.5MPa			
									3	4.0MPa			
									0	Customizable			
										1	CT 4		Explosion-proof grade
										2	CT 6		
LFLUGB-DN50											Selection example		

FEATURES

- High precision linear stability
- Good reliability and anti-interference performance
- No zero drift, strong anti-interference ability

SPECIFICATION

Path	10-500mm
Maximum flow rate	10m/s
Output signal	4 20mA, HARTprotocol , Rs485
Electrical Connections	Terminals
Comprehensive accuracy	1.0
Fluid conductivity	≥5μS/cm
Power supply	220VAC、24VDC
Power consumption	≤20W
Power consumption	10MPa、6.3MPa、2.5MPa、1.6MPa
Ambient temperature	-25℃~60℃
Ambient temperature Carbon stell	stainless steel (304、316、3 16L)
Ambient temperature	Ip67
Certification	CE ROHS



APPLICATION

- Paper making, refine sugar, mining and metallurgy, drainage, environmental protection
- Water conservancy and hydraulic engineering, iron and steel, petroleum, Pharmaceutical, various beverages
- Petroleum, organic liquid, inorganic liquid, cryogenic fluid

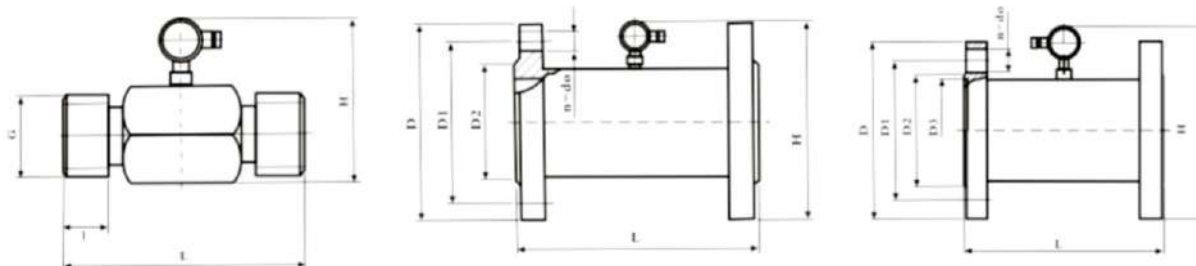
DIAMETER PARAMETER GAS

Path (mm)	Flow range (m3/h)	Fluid Temperature Range (°C)		Minimum Allowable Fluid Density (kg/m³)	Nominal Pressure (Mpa)	Accuracy
		One-piece	Explosion-proof			
15	4-16	-20~+55 -20~+100	-20~70	0.6	16	±1.5%
25	8-20				2.5	
40	20-100				6.3	
50	30-200					

DIAMETER PARAMETER LIQUID

Path (mm)	Flow range (m3/h)			Fluid Temperature Range (°C)		Nominal Pressure (Mpa)
	0.2	0.5	1.0	One-piece	Explosion-proof	
10		0.4-1.2	0.2-1.2	-20~+50 -20~+100	-20~70	6.3
15	12-4	0.6-6	0.4-6			2.5
25	3-10	1.2-12	1.2-12			6.3
40	8-25	3-30	3-30			16
50	12-40	5-50	5-50			6.3
80	20-100	16-100	12-120			
100	50-160	25-160	20-200			
150	100-300	50-300	40-400			2.5
200	200-600	100-600	80-800			
250	300-1000	160-1000	120-1200			2.5
300		250-1600				
400		400-2500				
500		600-4000				

DIMENSION

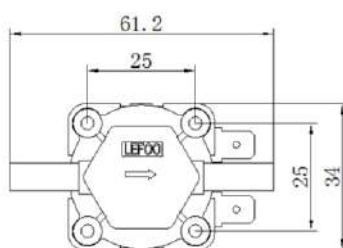
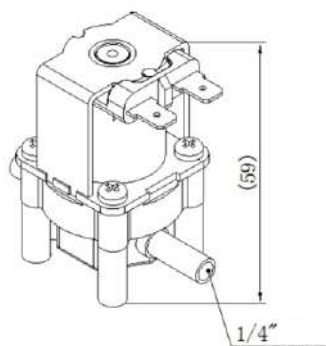
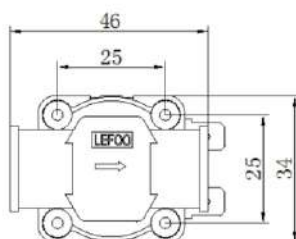
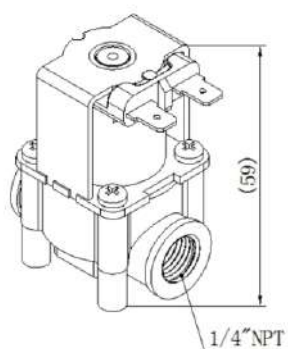
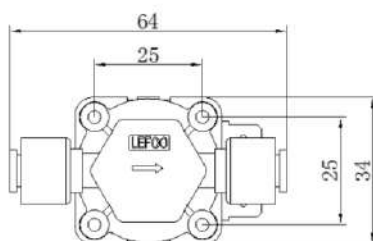
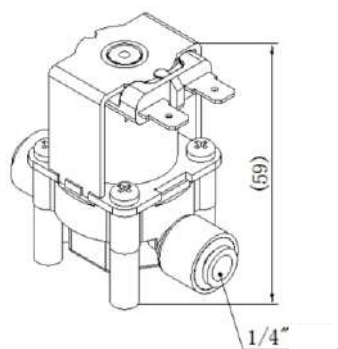


ORDER REF NO.

Code and description										Type	
LFLWGY										Turbine Fowmeter	
DN	10 · · 100 · · 500									Diameter	
		3	1.6								Nominal Pressure
		4	2.5								
		6	6.3								
		7	10								
		1	Flange connection								Pipe Connection Method
		3	Pipe thread connection								
			2	4-20mA Two wire							Output Signal
			3	Frequency (three-wire system)							
			4	Frequency (two-wire system)							
			6	+24VDC							Power Supply
			7	8--+24VDC							
				1	-20~55						Fluid Temperature (°C)
				2	-20~70						
				3	-20~120						
				1	Stainless steel						Shell Material
				2	Stainless steel and carbon steel flange						
				1	One-piece						Structure Type
				3	Bi-directional						
				8	Plug-in						
				0	Not explosion-proof						Explosion-proof Registration
2				d II Bt3							
4				ib II CT3							
			1	1.0						Accuracy Class	

LFLWGY-DN50	3	1	2	6	1	1	1	2	1	Selection example
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LEFOO



Dimensions: mm

SVD20 Inlet Solenoid Valve



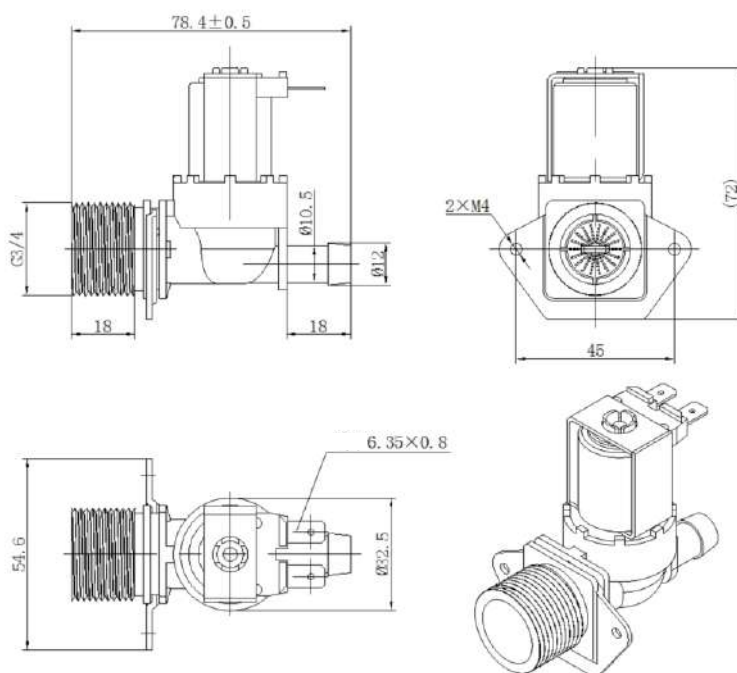
SVD20 Series of inlet and outlet solenoid valve with novel design, unique structure, also with excellent anti-blocking, anti-leakage performance, and are widely used in various types of high-grade water dispenser, RO straight drinking machine, pipeline machine, water purifying machine, coffee machine and other home appliances.

Technical Details

Model	Value			
Rated Voltage	DC12V	DC15V	DC24V	DC36V
Water Pressure Range	0.02MPa~0.8MPa			
Medium Temperature	0°C~75°C(No freeze)			
Insulation Class	F			
Ambient Temperature	0°C~90°C			
Ambient Humidity	<95%RH			
Flow Feature	>4L/min			
Installation Size	25mmx25mm			
Type of Connector	1/4"quick connector、1/4"NPT Female、1/4"blade、3/8"blade			
Options	Other specification requirements can be consulted separately for customization			

LFV18

Cold Water Inlet
Solenoid Valve



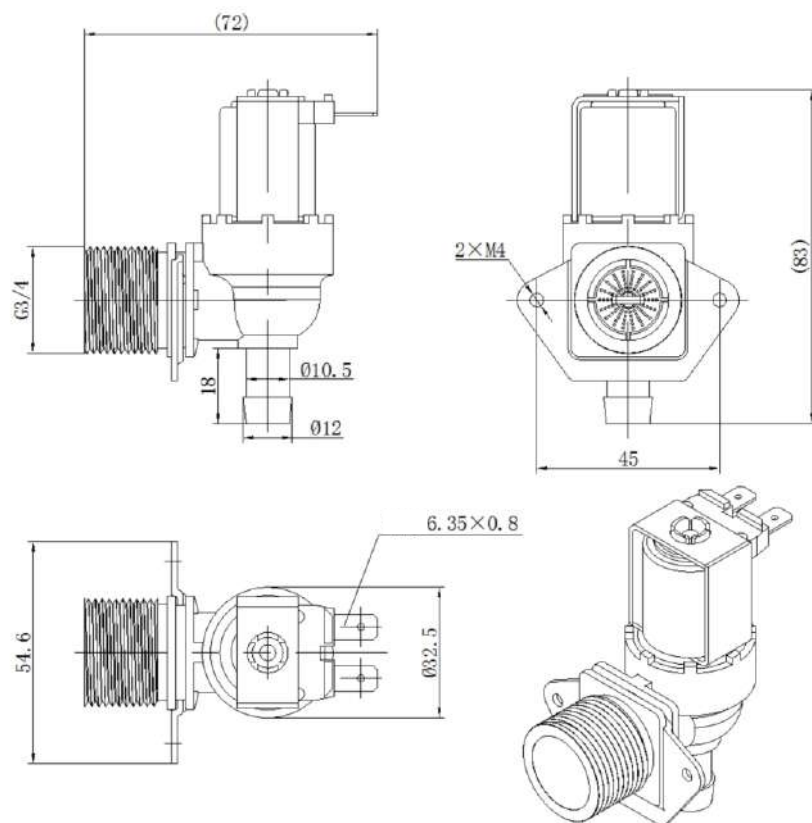
Dimension in : mm

The LFV18 series solenoid valve is mainly used in household electrical appliance, like washing machine, dish washing machine, water purifier and coffee machine. It operate using an electromagnetic solenoid coil to change the state of a valve from open to closed or vice-versa to serve the purpose of controlling liquid flow.

Specification

General	Value			
Rated Voltage	DC12V	DC24V	AC110V	AC220V
Coil Color	Black	Brown	Blue	Yellow
Water Pressure Range	0.02MPa~0.8MPa			
Media Temperature	0°C~70°C(No freeze)			
Insulation Class	F			
Ambient Temperature	0°C~90°C			
Ambient Humidity	<95%RH			
Flow Feature	>4L/min			

LEFOO



Dimension in : mm

LFV19

Cold Water Inlet
Solenoid Valve



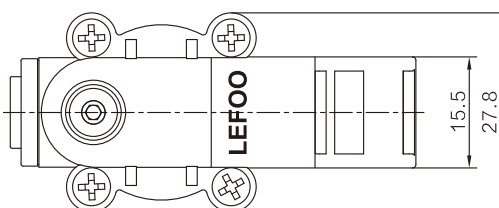
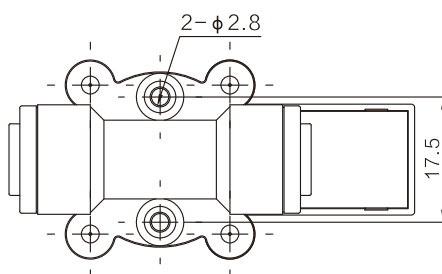
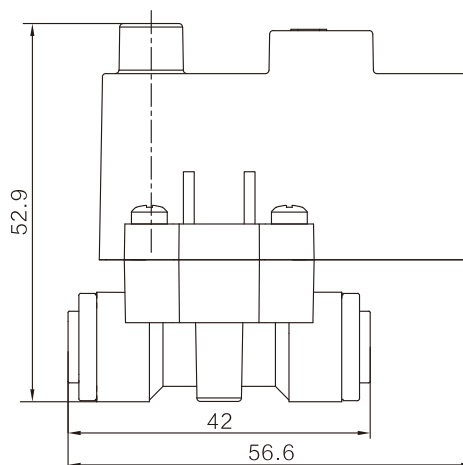
The LFV19 series solenoid valve is mainly used in household electrical appliance, like washing machine, dish washing machine, water purifier and coffee machine. It operate using an electromagnetic solenoid coil to change the state of a valve from open to closed or vice-versa to serve the purpose of controlling liquid flow.

Specification

General	Value			
Rated Voltage	DC12V	DC24V	AC110V	AC220V
Coil Color	Black	Brown	Blue	Yellow
Water Pressure Range	0.02MPa~0.8MPa			
Media Temperature	0°C~70°C(No freeze)			
Insulation Class	F			
Ambient Temperature	0°C~90°C			
Ambient Humidity	<95%RH			
Flow Feature	>4L/min			

LF42

Water dispensers high and low pressure switch



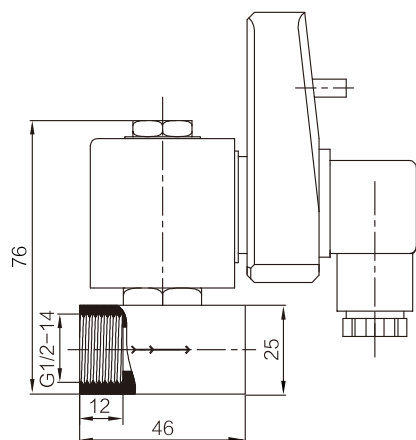
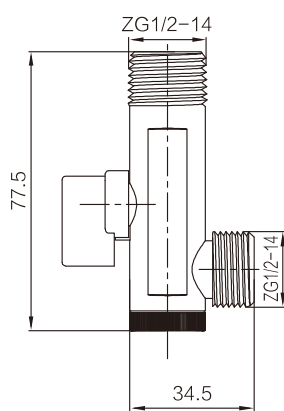
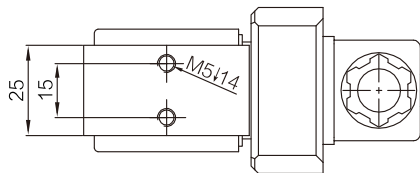
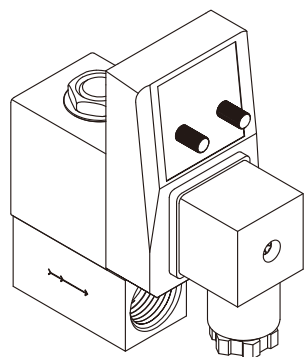
Dimension in:mm

LF42 series pressure switch is used in water supply pressure protection of water inlet. This series include two models LF42H(high pressure protection) and LF42L(low pressure protection). LF42H is the high pressure protection switch model. If the pressure of the pressure vessel transferred reaches the setting value while the vessel is full filled with water, the switch will cut off the circuit to make the pump stop. So the pump will not be damaged. LF42L is the low pressure protection switch. If the pressure of water inlet lower than set value, RO will not work and keep dewatering, then the switch will cut off the circuit to make the pump stop. It can prevent the booster pump still working without water which may

Model	LF42H	LF42L
Media	water	water
Pressure set range	cut off pressure:2.5bar±0.5bar cut in pressure: 1.5bar±0.5bar	cut off pressure:≤0. 1 bar cut in pressure: ≥0. 2 bar
Proof pressure	18bar	18bar
Durability	> 40000 times	> 40000 times
Working temperature	5~45℃	5~45℃
Switch type	Microswitch , nomal close	Microswitch , nomal open
Electrical rating	Voltage:250V AC Current:16A	Voltage:250V AC Current:16A
Terminal	4.8*0.8 blade	4.8*0.8 blade
Connector	A quarter fast interface	A quarter fast interface

Conversion:1bar=14.5psi 1MPa=10bar

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Dimension in:mm

Installation and use of products

1. Before installation, make sure no impurities like dirt, copper scale and rust in the compressed air system, and the system pressure has been released for one minute.
2. Vertically installed into the pipe, the flow direction should be same as arrow in the valve shows, don't use flexible pipe without resistance to air impact in the water outlet.
3. Make sure the input power is coincident to the voltage shows in the coil. No permission to remove the coil from valve when power on, to protect coil from burning.
4. The positive pole should be connected with connection "1" when use DC voltage.

Specification

Model	LFSV20-B
Media	Water
Media temperature	-20~80°C
Work pressure	0~16 bar
Hole diameter(mm)	φ 3.0
Interval time	0.5~45min
Drain time	0.5~10 sec
Connection type	3/8" or 1/4" is available

LFSV20-B

Drainage
Solenoid valve



LFSV20-B is a kind of 2/2-way solenoid valve, which is normally closed. It's used for blocking or mobilizing medium in pipe, to discharge condensate water after compress air. The main application of LFSV20-B is filter, separator, drying machine, air tank, drop foot, and other components of compressed air system. The drain time and interval time are adjustable.

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