

FEATURE

- High-precision MEMS digital pressure sensor to detect positive pressure, negative pressure or pressure difference, a better alternative to the traditional pointer mechanical watch
- Versatile product that combines high-lighted LED digital display, switch control and transmitter output
- The output range of the internal range is adjustable, and a variety of pressure units can be switched
- Built-in buzzer, provide sound and light alarm, can set the alarm pressure value range on site
- Optional relay output or alarm, and at the same time LED indication
- RS-485 serial communication, support for standard Modbus RTU protocol
- Cast aluminum shell, with good impact resistance, heat resistance and so on
- No moving parts, shock-proof;



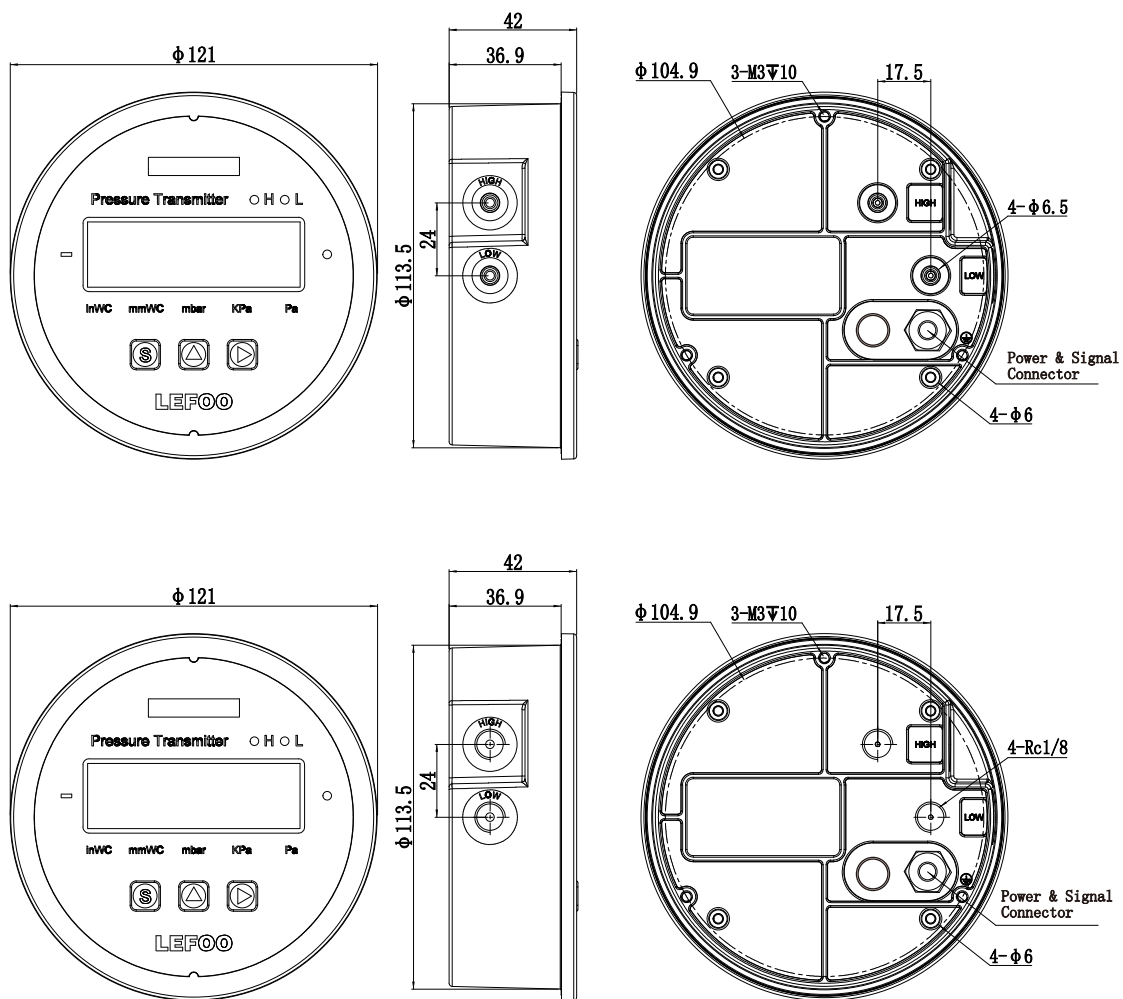
DESCRIPTION

LFM73 Multi-function Differential Pressure Transmitter/Controller uses high-precision MEMS sensor, LED digital display and transmitter output to detect the pressure difference. It can replace the pointer-type mechanical pressure gauge. The pressure measurement range and pressure unit can be easily adjusted on site through buttons. It adopts an IP65 protection grade housing and is suitable for energy management systems, heating, ventilation and air conditioning (HVAC), VAV and fan control, environmental pollution control, static Pipeline and clean room pressure, smoke volume control, oven pressurization and boiler ventilation control and other fields.

PARAMETER

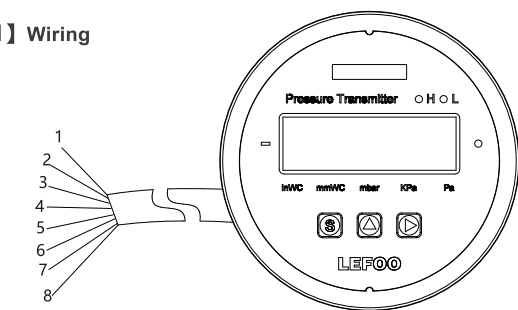
Measured Medium	Air or non-corrosive gases
Measurement range	±100Pa, ±1000Pa, ±10000Pa
Overload pressure	5KPa(±100Pa);10KPa(±1000Pa); 80KPa(±10000Pa)
Accuracy	±1.0%FS
Operation Temperature	-20℃~80℃
Compensated Temperature	-10℃~60℃
Storage Temperature	-40℃~85℃
Response time	0.5s(default)/1.0s/2s/4s
Protection Grade	IP65
Pressure Connection	Concave Interface Φ 6.5 mm
Output Signal	4~20mA(three wire)/0~10V/RS485
Control Signal	2*SPST, 3A-30VDC/250VAC
PowerSupply	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

DIMENSION (mm)



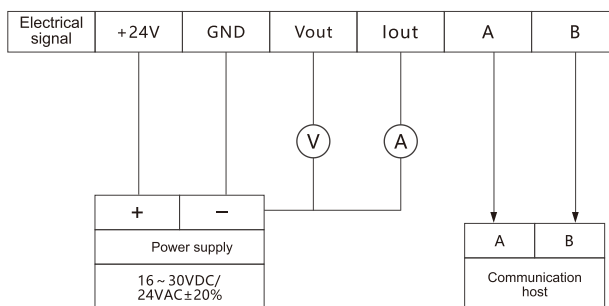
WIRING INSTRUCTIONS

【1】 Wiring



- | | | | |
|----------|----------|-----------|---------|
| 1. Red | 3. White | 5. Brown | 7. Gray |
| 2. Black | 4. Green | 6. Yellow | 8. Blue |

【2】 Wiring diagram



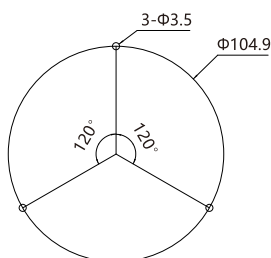
【3】 Chart

Product model	Cable color	Red	Black	White	Green	Brown	Yellow	gray	Blue
LFM73X-ANXXX LFM73X-ABXXX	Electrical signal	+24V	GND	Vout	Iout				
LFM73X-ENXXX LFM73X-EBXXX	Electrical signal	+24V	GND	A+	B-				
LFM73X-NRXXX LFM73X-NDXXX	Electrical signal	+24V	GND			Normally open contact NO1	Public end COM1	Normally open contact NO2	Public end COM2
LFM73X-ARXXX LFM73X-ADXXX	Electrical signal	+24V	GND	Vout	Iout	Normally open contact NO1	Public end COM1	Normally open contact NO2	Public end COM2
LFM73X-ERXXX LFM73X-EDXXX	Electrical signal	+24V	GND	A+	B-	Normally open contact NO1	Public end COM1	Normally open contact NO2	Public end COM2
LFM73X-HNXXX	Electrical signal	+24V	GND	A+	B-	Iout			

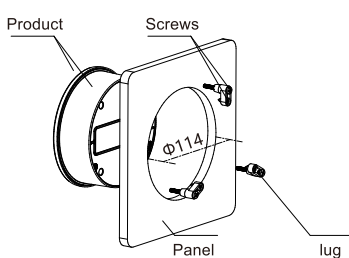
REMINDER: For other product models, please refer to the information on the surface of the product for specific wiring methods.

PRODUCT INSTALLATION

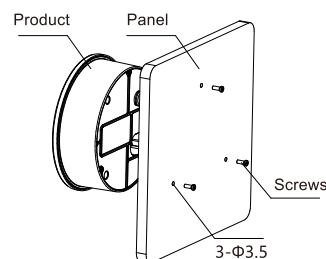
Installation precautions: Installation and wiring should be performed by qualified technicians. The power should be turned off during wiring. When the transmitter is powered by a 24VAC power supply, it is recommended to use a transformer-isolated AC power supply. When the transmitter shares a 24VAC power supply with other device, need to ensure a reliable connection between 24V and GND, otherwise unpredictable problem may occur, or even damage the device.



• Panel hole positioning diagram



• Method 1: Panel lug installation



• Method 2: Panel installation

Panel lug mounting (steps) :

Step 1: is to open a circular hole



Step 2: Load the product



Step 3: Lock the product with screws and lugs

SELECTION INSTRUCTIONS

Code and description							Remark
LFM73							Model number
	6	-100~100Pa					Range
	0	-1000~1000Pa					
	2	-10000~10000Pa					
		N	N/A				Signal output type
		E	RS-485 Communication				
		A	4~20mA and 0~10V				
		H	4~20mA and RS-485 Communication				
		N	N/A				Control output
		R	2 SPDT Relays + 1xBuzzer				
		B	1 x Buzzer				
		D	2 SPDT Relays				
		P	Plastic panel				Mounting panel
			F	Front panel air intake			Intake mode
			B	Back air intake			
			S	Side air intake			
				D	Direct insertion		Air Hose Connection
				T	Thread connector transfer		
LFM73	0	-A	R	P	B	D	Selection example