

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;



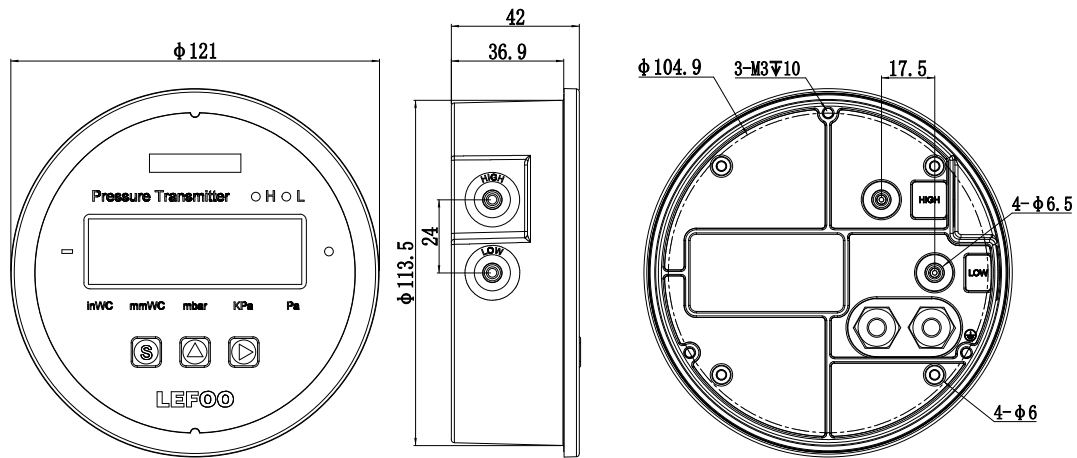
DESCRIPTION

LFM73 series digital differential pressure transmitter adopts high-precision MEMS sensor, LED digital display 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.

PARAMETER

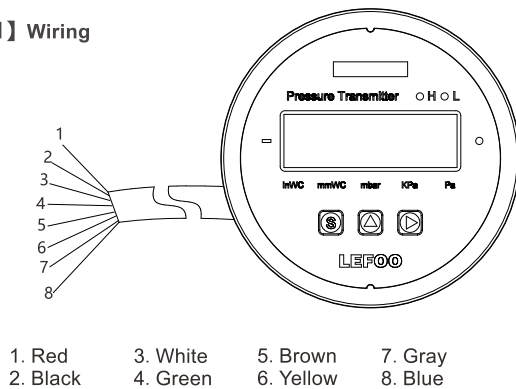
Measured Medium	Air or non-corrosive gases
Measurement range	±100Pa, ±1000Pa, ±10000Pa
Overload pressure	5KPa(±100Pa);10KPa(±1000Pa); 80KPa(±10000Pa)
Accuracy	±1.0%FS
Operation Temperature	-20℃~80℃
Compensated Temperature	-10℃~60℃
Storage Temperature	-40℃~85℃
Response time	0.5s(default)/1.0s/2s/4s
Protection 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)

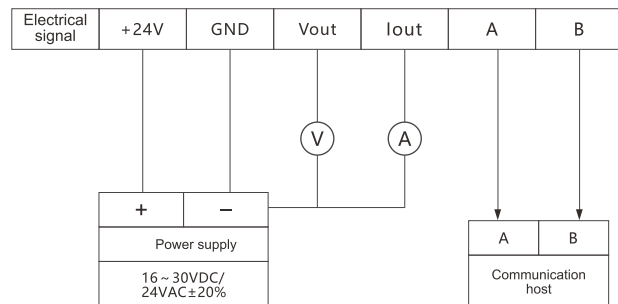


WIRING INSTRUCTIONS

【1】 Wiring



【2】 Wiring diagram



【3】 Chart

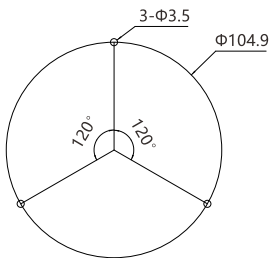
Product model	Cable color	Red	Black	White	Green	Brown	Yellow	gray	Blue
LFM73X-ANXX LFM73X-ABXX	Electrical signal	+24V	GND	Vout	Iout				
LFM73X-ENXX LFM73X-EBXX	Electrical signal	+24V	GND	A+	B-				
LFM73X-NRXX LFM73X-NDXX	Electrical signal	+24V	GND			Normally open contact NO1	Public end COM1	Normally open contactNO2	Public end COM2
LFM73X-ARXX LFM73X-ADXX	Electrical signal	+24V	GND	Vout	Iout	Normally open contact NO1	Public end COM1	Normally open contactNO2	Public end COM2
LFM73X-ERXX LFM73X-EDXX	Electrical signal	+24V	GND	A+	B-	Normally open contact NO1	Public end COM1	Normally open contactNO2	Public end COM2
LFM73X-HNXX	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.

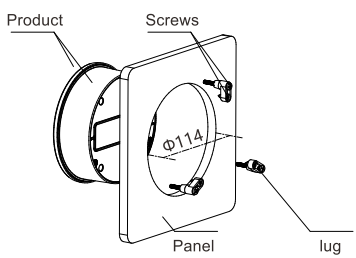
PRODUCT INSTALLATION

Installation precautions:

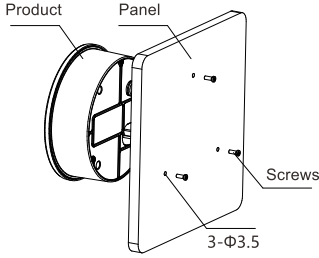
Installation and wiring should be used by qualified technicians. Power off during the wiring process. When the transmitter uses 24VAC power supply, it is recommended to use the AC power supply after transformer isolation. When the transmitter shares the same 24VAC power supply with other devices, it is necessary to ensure the reliable connection between 24V and GND. Otherwise, there may be unpredictable situations and even damage to the equipment.



• 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		
LFM73	0	-A	R	P	B	Selection example