

PB570-P series is a new kind of differential pressure transmitter, which has main and auxiliary screens for double display, and increases the display content. The working status of the instrument can be known 10 meters away. With Bluetooth technology, the non-contact debugging of the manual operator can be carried out, which is more convenient for the working condition of manual key pressing due to unsuitable installation position or explosion-proof area.

This transmitter is more suitable for monitoring pressure and flow in air conditioning system and laboratory.

A group of analog signal output can carry out two groups of switch alarm signal at the same time.

This product has two series: ordinary type and explosion-proof type



Characteristic:

1. P series main screen adopts 5-bit wide screen LED digital display, which can realize multi angle and long-distance observation
2. The secondary screen is composed of green, yellow and red progress bar, which can display full range status, so that the operator can identify the operation status of the station remotely
3. The whole P series products are equipped with Bluetooth identification system, which can remotely observe and change the internal configuration form through the manual operator, so as to solve various inconveniences caused by physical keys
4. Strong and durable metal shell, excellent membrane technology and ceramic combination make the product has ultra-high stability.
5. The pressure diaphragm is resistant to high temperature, high humidity and 50 times high pressure overload.
6. A variety of electrical interfaces can be selected to facilitate on-site installation and debugging.
7. Built in dual anti-electromagnetic interference technology.
8. Simple installation and no need maintenance.

Typical applications:

- Filter monitoring
- Flow measurement
- Clean room monitoring
- Fume hoods

Advantages:

1. The 160 degree visual angle beyond 10 meters can be observed clearly to reduce the workload of personnel inspection
2. There is no need to check the total value by measuring the index tag, as well as the percentage of the current value and total value.
3. It can solve the problem of multi page and multi parameter of physical keys, and all information can be seen through the screen of the manual operator; it is more convenient to set parameters, which can realize the multi-purpose of one machine; it is especially suitable for the working conditions that the installation position or explosion-proof occasions are not suitable for personnel operation
4. By selecting and using plug-in connection, the workload of field wiring personnel can be reduced

Technical data

Reference condition:	77°F (25°C)
Accuracy*:	±0.50%、±1.0% F.S-Maximum (URL) (* includes linearity, hysteresis and repeatability)
Repeatability:	≤ ±0.1 % F.S.
Stability:	≤ 0.5% F.S. / Year
Zero / Span Adjustment:	±5% F.S.
Standard-Ranges (Unidirectional):	100 Pa to 10 KPa (See Pressure Range & Engineering Unit Table)
Standard-Ranges (Bidirectional):	±100 Pa to ±5000 Pa (See Pressure Range & Engineering Unit Table)

ENVIRONMENTAL SPECIFICATIONS

Enclosure Rating:	IP65、IP66
Temperature Limits:	
Operating:	-20/70°C, -20~60(expllosion-proof type)
Storage:	-20/70°C
Compensated:	2/50°C (10-90% R.H. non-condensing)
Temperature Coefficients:	
Zero & Span	±0.06% / K within 35/129°F (2/54°C) Ref. 77°F (25°C)

FUNCTIONAL SPECIFICATIONS

Static (line) Pressure:	All Pressure Ranges Proof: 50kPa
Burst:	50 kPa
Max. Static:	50 kPa

ELECTRICAL SPECIFICATIONS

LED Display:	5 Digit
LED Screen Dimensions:	
Width:	85mm/ Height: 64mm)
LED Character Size:	
Height:	17.4mm / Width: 70.5mm)
Output Signal:	4-20 mA (3wire)
Switch output:	EMR (2A 30VDC / 2A 200VAC) SSR (0.1A 60V AC/DC RON<0.8ohm(typ.)) (explosion-proof type)
Supply Voltage:	10-36 Vdc (Nominal 24 Vdc)
Rangeability / Adjustment:	Zero: ±33% F.S.
CE-Compliance:	EN 61000-4-2, EN 61000-4-3
Explosion-proof :	EX ia II CT4

Signal-Ui:28V DC ,Li:93mA,Pi:0.66W,Ci:0μF,Li:0mH
Switch-Ui:30V DC ,Li:100mA,Pi:42W,Ci:0μF,Li:0mH

MECHANICAL SPECIFICATIONS

Electrical Connection:	1/8" Female NPT
Enclosure:	2 x round plug connector M12
Cable Connection Socket:	Aluminum
Front Foil:	Nylon
Electrical Connection:	Polyester
Weight:	M12
Mounting:	580 g
DIN Rail (Option):	Wall Mount (Standard)
Panel Mount (Option)	EN 50022 / EN 50035 / EN 50045
Sensor Material:	PVC/Aluminum / Glass etc.
Media:	Clean, Dry Air / Non-Corrosive Gas

PRESSURE RANGE

PRESSURE RANGE & ENGINEERING UNIT

Pa/kPa

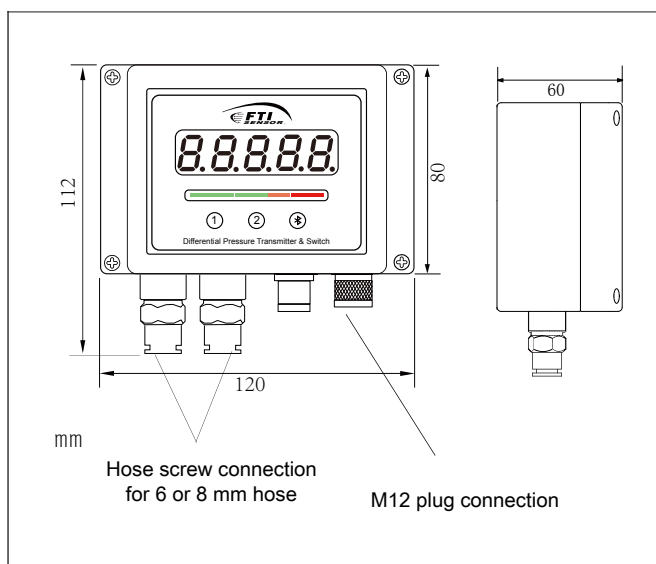
Unidirectional

(100Pa)	100
(125Pa)	125
(160Pa)	160
(200Pa)	200
(250Pa)	250
(300Pa)	300
(400Pa)	400
(500Pa)	500
(600Pa)	600
(1kPa)	1.00
(1.6kPa)	1.60
(2kPa)	2.00
(2.5kPa)	2.50
(4kPa)	4.00
(5kPa)	5.00
(10kPa)	10.00

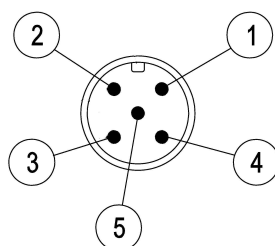
Bidirectional

(100Pa)	±100
(125Pa)	±125
(160Pa)	±160
(200Pa)	±200
(250Pa)	±250
(300Pa)	±300
(400Pa)	±400
(500Pa)	±500
(600Pa)	±600
(1kPa)	±1.00
(1.6kPa)	±1.60
(2kPa)	±2.00
(2.5kPa)	±2.50
(4kPa)	±4.00
(5kPa)	±5.00

Wall mounting

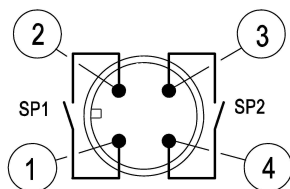


NO.1



- 1 Power supply (+Ub)
- 2 Output (+ Sig)
- 3 Power supply (-Ub)
- 4 Output (- Sig)
- 5 not connected

NO.2



- 1 Switch output 1
- 2 Switch output 1
- 3 Switch output 2
- 4 Switch output 2