P401 Series

Explosion Proof Pressure Transmitter



☐ Feature

- Compact designed terminal head
- Excellent corrosion and abrasion resistances
- Measuring ranges from 0~0.01 to 200MPa gauge pressure
- Piezo resistive silicon or thin film sensor.
- High accuracy and low temperature drift
- Shock and vibration resistance
- Competitive price

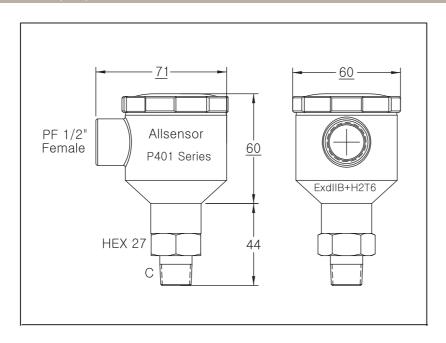
Applications

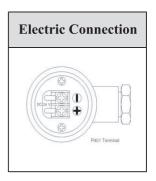
- Hydrauric and pneumatic equipments
- · Process control and monitoring
- Machine tools and automatic machinery
- Construction equipments and automotive industries
- Metrolrogy and hydrometry
- Servo valves and drives
- Chemical and pertochemical industries
- · Air and gas compressors
- Loading devices and brake systems
- Water resource management
- Flow detection
- Liquid level measurement

Input		
Technology	Piezo resistive silicon or Thin Film pressure sensor.	
Pressure range	0~0.01 to 200MPa relative pressure	
-	0~0.1 to 100MPa absolute pressure	
Pressure reference	Gauge, absolute, vacuum and compound	
Overload	2×full scale without damage	
Output		
	Current output	
Electrical connection type	2-wire technique	
Full scale output signal	20mA ±0.05%	
Zero measured output	4mA ±0.03%	
	Other signals available on request	
Electrical Specifications		
Power supply	12~36V DC	
Load resistance max@24V	500 Ω at 24 V	
Influence of excitation	0.01% FSO/V	
Power ripple	≤500mV P-P Excitation voltage	
Perfirmance Specifications		
Accuracy	≤±0.25% FSO, ±0.5% FSO	
Non-linearity	±0.100% FSO typical	
Repeatability	±0.015% FSO typical	
Pressure hysteresis	±0.010% FSO typical	
Long term stability	±0.3% FSO over 6 month	
Cutoff frequency(-3dB)	≤2kHz	
Refernce temperature	25°C	
Operating temperature range	-20 ~100 °C	
Compensated temperature range	-20 ~ 60 °C	
Thermal sensutivity shift	≤±0.2% FSO in reference to 35°C typical	
Thermal zero shift	≤±0.2% FSO in reference to 35°C typical	
Thermal hysteresis	≤±0.1% FSO in reference to 35°C typical	

Physical Specifications	
Process connection	PT1/4", PT3/8", PT1/2" male thread STANDARD PT 3/8"
	Female thread & other connections available on request
Process media	Gases and liquids compatible with
Materials wetted by process	Diaphragm: Stainless steel 316
	Housing: stainless steel
Enclosure rating	IP67
Explosion protection	Ex d IIB+H2 T6 (05-1-602-Q1)
Influence of mounting position	Not critical
Weight	Approx. 800 g

Dimension(mm)





Process Connection		
С	L	
PT 1/4"	14	
PT 3/8"	17	
PF 1/2"	18	
UNF7/16"	14	

Ordering Information

