

P201 Series

High Precision Pressure Transmitter



Feature

- High precision pressure transmitter for industrial applications
- Measuring ranges from 0~0.01 to 200MPa
- Advanced thin film or Piezo Resistive measuring cell
- Excellent accuracy and long term stability
- 200% proof pressure

Applications

The transmitters can be used for a wide range of applications in process control, automatic machinery and hydraulic or pneumatic system design.

- Standard hydraulic and pneumatic equipments
- Freon and ammonia refrigeration
- Machine tools and automatic machinery Flow control
- Oil and off-shore industry
- Equipments for chemical and petrochemical industry
- Engine monitoring and control
- Fire fighting equipments and braking system for railway

Input

Technology	Piezo Resistive silicon pressure sensor, Thin film sensor
Pressure range	0~0.01 to 200MPa relative pressure 0~0.1 to 200MPa absolute pressure
Pressure reference	Gauge, absolute, vacuum and compound
Overload	2×full scale without damage

Output

	Current output		Voltage output	
Electrical connection type	2-wire technique		3 or 4-wire technique	
Full scale output signal	20mA	±0.05%	5V	±0.05%
Zero measured output	4mA	±0.03%	1V	±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

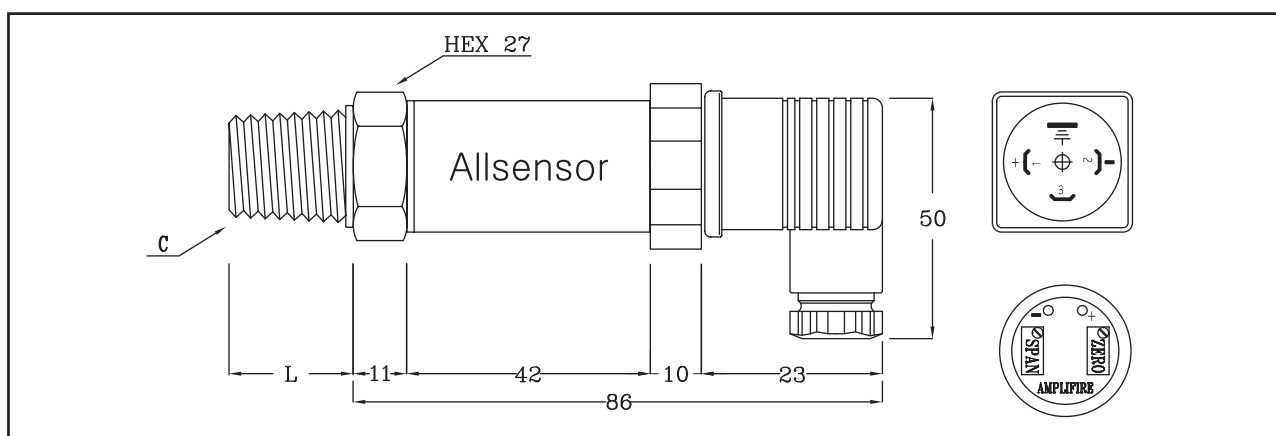
Performance Specifications

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
Reference temperature	25℃
Operating temperature range	-40 ~125 ℃
Compensated temperature range	-20 ~ 60 ℃
Thermal sensitivity shift	≤±0.2% FSO in reference to 35℃ typical
Thermal zero shift	≤±0.2% FSO in reference to 35℃ typical
Thermal hysteresis	≤±0.1% FSO in reference to 35℃ typical

Physical Specifications

Process connection	PT1/4", PT3/8", PT1/2" male thread STANDARD PT3/8"
	Female thread & other connections available on request
Process media	Gases and liquids compatible with STS316
Materials wetted by process	Stainless steel 316
	Housing : Stainless steel
Enclosure rating	IP65
Influence of mounting position	Not critical
Weight	Approx. 250g
Option	Remote or Flush Diaphragm Seal

Dimension(mm)



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

Output	mV	V, mA	V, mA	mA
Wire	4 Wire	4 Wire	3 Wire	2 Wire
A, Red	Excitation +	Power +	Power +	Power +
B, Black	Excitation -	Power -	Common -	Return -
C, Green	Signal +	Signal +	Signal +	
D, White	Signal -	Signal -		
Power	mV / V	12~33 V DC		

Ordering Information

P	2	0	1	H		0	1	0	M	G	A	D
<u>Model Name</u> P201:High accuracy (±0.25%)				<u>Pressure Range</u> Refer to pressure range code page 5				<u>Pressure Unit</u> M:MPa B:bar P:psi K:kgf/cm ² H:mmH ₂ O G:mmHg T:torr			<u>Process Connection</u> A:PT3/8" B:PF3/8" C:PT1/4" D:PF1/4" E:PT1/2" F:PF1/2" O:Others	
<u>Out Put</u> A:4Wire mV D:4Wire 1~5V E:3Wire 1~5V H:2Wire 4~20mA K:4Wire 0~10 V DC				<u>Pressure Type</u> G:Gauge C:Compound V:Vacuum A:Absolute				<u>Electric Connection</u> D:DIN 43650				