

## Model PM210T For High Temperature Applications



### Features

- Measuring ranges from 350mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy:  $\pm 0.25\%$  FSO or  $\pm 0.5\%$  FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Wider operation temperature range
- Variety of Pressure & Electrical connections
- Output 4...20mA, 0...10V, 0...5V and others

### Product Overview

PM210T is made from high temperature silicon piezoresistive sensor chip. The piezoresistive sensor chip is packaged in a fluid-filled cylindrical cavity and isolated from measured media by a stainless steel diaphragm and housing. The measured media is transferred onto sensor through heating cooling parts, and high accuracy amplified circuit board is in stainless steel housing, transmitting sensor signal into standard output signal.

A wide range of process connection and electrical connection options are available to meet almost requirement.

### Applications

- Process control systems
- Hydraulic systems and valve
- Machine building
- Steam and heat exchange

### Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-1...0bar	•		
0...0.35bar	•		•
0...0.7bar	•		•
0...1bar	•		•
0...1.6bar	•		•
0...2.5bar	•		•
0...4bar	•		•
0...6bar	•		•
0...10bar	•	•	•
0...16bar	•	•	•
0...25bar	•	•	
0...60bar		•	
0...100bar		•	
0...250bar		•	
0...400bar		•	
0...600bar		•	

Other pressure ranges available. Please consult the factory.

# Piezoresistive Pressure Transmitter

## Performance Specifications

Parameter	Value	Units	Notes
<b>General</b>			
Pressure Range	-1-0, ..., 0-0.35, ..., 600	bar	1bar=14.5psi
Overpressure	1.5xFS	bar	
<b>Environmental</b>			
Medium Temperature Range	0 to +150(standard), 0 to +300	°C	32°F to 302°F
Compensated Temperature Range	-10 to +70	°C	14°F to 158°F
Environment Temperature Range	-20 to +85	°C	-4°F to 185°F
Vibration	10	g	20 to 2000Hz
Shock	100	g	10ms
Cycles	10 <sup>6</sup>	cycles	
<b>Electrical @25°C(77°F)</b>			
Output Signal	4...20mA    0...5Vdc    1...5Vdc    0...10Vdc		
Power Supply(Vs)	12...36Vdc    12...36Vdc    12...36Vdc    15...36Vdc		
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)		
Insulation Resistance	100MΩ@50Vdc		
<b>Physical Specifications</b>			
Media Compatibility	All media compatible with 316L stainless steel		
Electronic Housing	Aluminum alloy		
Diaphragm	316L stainless steel		
Seal Ring	Viton or NBR		
Oil Filling	Silicone oil		
Protection	IP65(Standard)		
Net Weight	Approx.755g		

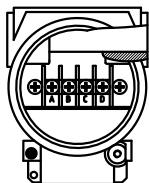
Parameter	Minimum	Typical	Maximum	Units	Notes
<b>Performance</b>					
Accuracy	0.1	0.25	0.5	%FSO	1,2
Temp Coeff - Zero		±1	±1.5	%FSO	3
Temp Coeff - Span		±1	±1.5	%FSO	3
Long-Term Stability		±0.2	±0.3	%FSO/year	1

### Notes

- All values measured at 25°C(77°F)
  - Including non-linearity, hysteresis and repeatability.
  - 10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).
- The listed specifications and dimensions are subject to change without prior notice.

## Connection Diagrams

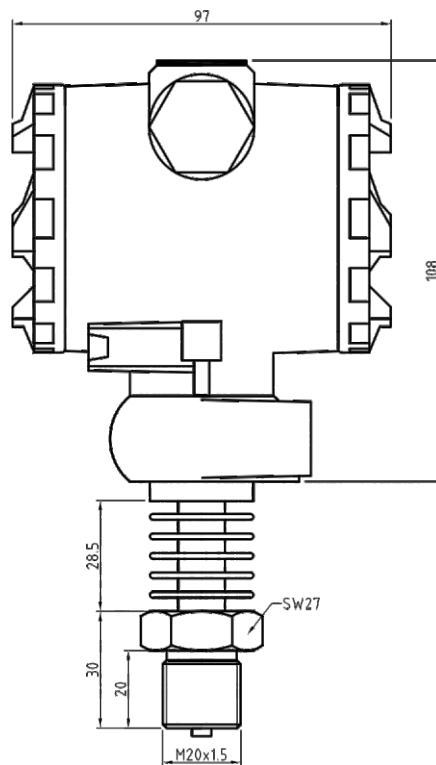
### Terminal



	2-wire(current)	4-wire(voltage)
Supply+ A		A
Supply- B		B
Signal+ -		D
Signal- -		C

# Piezoresistive Pressure Transmitter

## Dimensions (in mm)



## Ordering Information

<b>Option1: Model</b>			
PM210T	High-Temperature Pressure Transmitter		
<b>Option2: Pressure Ranges</b>			
N001	-1...0bar      0060 0...6bar      4000 0...400bar		
0003	0...0.35bar      0100 0...10bar      6000 0...600bar		
0007	0...0.7bar      0160 0...16bar      Cxxx Customized range		
0010	0...1bar      0250 0...25bar		
0016	0...1.6bar      0600 0...60bar		
0025	0...2.5bar      1000 0...100bar		
0040	0...4bar      2500 0...250bar		
<b>Option3: Pressure Type</b>			
G	gauge		
A	absolute		
S	sealed gauge		
<b>Option4: Output Signal</b>			
42	4...20mA		
05	0...5Vdc		
15	1...5Vdc		
10	0...10Vdc		
-	-		
<b>Option5: Accuracy</b>			
02	0.25%FSO		
05	0.5%FSO		
<b>Option6: Electrical Connection and Temp.</b>			
T	Terminal 0-150 °C		
T1	Terminal 0-300 °C		
-	-		
-	-		
<b>Option7: Mechanical Connection</b>			
M2	M20x1.5(male)	N2	1/2NPT(male)
G4	G1/4(male)	F4	G1/4(female)
G2	G1/2(male)	P1	1/4PT(male)
N1	1/4NPT(male)	P2	1/2PT(male)
Nx	Customized		
<b>Option8: LCD Digital indicator</b>			
	No		
DS	LCD Digital indicator		