

# Model PTM600

## For Melt Pressure Measurement



### Features

- Measuring ranges from 20bar to 1500bar
- Accuracy:  $\pm 0.25\%$ FSO or  $\pm 0.5\%$ FSO
- Calibrated and temperature compensated
- Internal shunt calibration signal of 80%FSO
- Metal foil strain gauge technology
- Variety of Pressure connections
- Output 4...20mA, 0...10V, 3.33mV/V and others

### Product Overview

PTM600 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of PTM600 is 3.33mV/V as the output signal for the full bridge. In addition, the output of bridge also can be configured to either 4~20mA or 0~10Vdc standard signal by sensor signal conditioning. Zero & full span can be adjustable, with amplify signal can be connected with PLC. With the advantage of high precision and reliable pressure measuring and good quality, internal 80% calibration and etc.

### Standard Pressure Ranges

Nominal pressure	gauge
0...20bar	●
0...35bar	●
0...50bar	●
0...70bar	●
0...100bar	●
0...250bar	●
0...350bar	●
0...500bar	●
0...700bar	●
0...1000bar	●
0...1500bar	●

Other pressure ranges available. Please consult the factory.

### Applications

- Process control systems
- Fiber equipment
- Plastic and rubber manufacturing equipment

## Performance Specifications

Parameter	Value	Units	Notes
<b>General</b>			
Pressure Range	0-20,...,1500	bar	1bar=14.5psi
Overpressure	1.5xFS(2000bar max.)	bar	
<b>Environmental</b>			
Max. Diaphragm Temperature	350	°C	662°F
Compensated Temperature Range	0 to +80	°C	32°F to 176°F
Storage Temperature Range	0 to +125	°C	32°F to 257°F
<b>Electrical @25°C(77°F)</b>			
Output Signal	4...20mA    0...5Vdc    1...5Vdc	3.33mV/V	2mV/V
Power Supply(Vs)	12...36Vdc    12...36Vdc    12...36Vdc	10Vdc	10Vdc
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 15-5PH stainless steel		
Housing	304 stainless steel		
Diaphragm	15-5PH stainless steel		
Seal Ring	/		

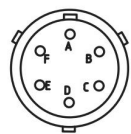
Parameter	Minimum	Typical	Maximum	Units	Notes
<b>Performance</b>					
Accuracy	0.25	0.5	1.0	%FSO	1,2
Temp Coeff - Zero		±0.05	±0.07	%FSO/°C	
Temp Coeff - Span		±0.05	±0.07	%FSO/°C	
Long-Term Stability		±0.2	±0.3	%FSO/year	1

### Notes

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

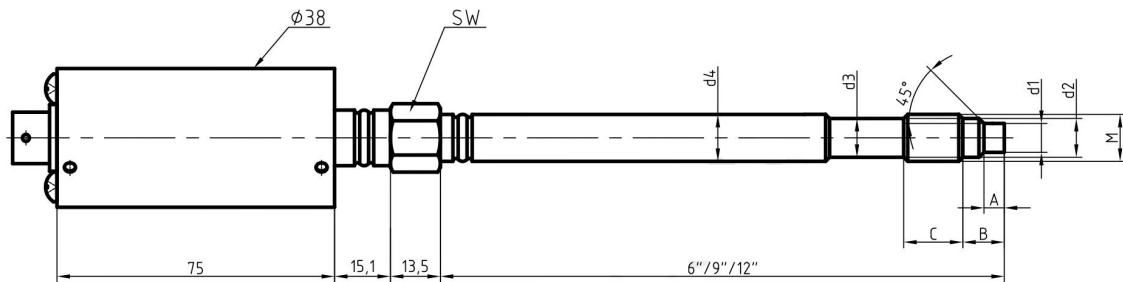
## Connection Diagrams

### 6- pin Connector



	2-wire(current)	4-wire(voltage)
Signal+	B	A
Signal-	-	B
supply+	A	C
supply-	-	D
calibration	E	E
calibration	F	F

## Dimensions (in mm)



M	d1	d2	d3	d4	A	B	C	SW	6"	9"	12"
1/2-20UNF	φ7.8	φ10.5	φ10.5	φ12.7	5.4	11.2	16	16	152	230	305
M14x1.5		φ11.8	φ11.8	φ13.5							
M18x1.5		φ9.8	φ15	φ15.5							

## Ordering Information

Option1: Model	
PTM 600	Melt Pressure Transmitter
<b>Option2: Pressure Ranges</b>	
0200	0...20bar      7000 0...700bar
0350	0...35bar      1001 0...1000bar
0700	0...70bar      1501 0...1500bar
1000	0...100bar      Cxxx Customized range
2500	0...250bar
3500	0...350bar
5000	0...500bar
<b>Option3: Temperature Sensor</b>	
-	-
<b>Option4: Output Signal</b>	
42	4...20mA
05	0...5Vdc
10	0...10Vdc
20	2mV/V
33	3.33mV/V
<b>Option5: Accuracy</b>	
02	0.25%FSO
05	0.5%FSO
10	1.0%FSO
<b>Option6: Length of rigid stem</b>	
6	152mm (6")
9	230mm(9")
12	305mm(12")
Lx	Customized
<b>Option7: Mechanical Connection</b>	
U2	1/2-20UNF(male) M22 M22x1.5(male)
M14	M14x1.5(male) G3 G3/8(male)
M18	M18x1.5(male) Nx Customized
PTM600	0350      42      02      6      U2      Examples of Ordering Code:PTM 600-0350-42-02-6-U2

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.