

Model MPT600

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

MPT600 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of MPT600 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.

Applications

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

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.

Performance Specifications

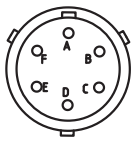
Parameter	Value	Units	Notes		
General					
Pressure Range	0-20,...,1500	bar	1bar=14.5psi		
Overpressure	1.5xFS(2000bar max.)	bar			
Environmental					
Max. Diaphragm Temperature	350	°C	662°F		
Compensated Temperature Range	0 to +80	°C	32°F to 176°F		
Storage Temperature Range	0 to +125	°C	32°F to 257°F		
Electrical @25°C(77°F)					
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				
Physical Specifications					
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
Performance					
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

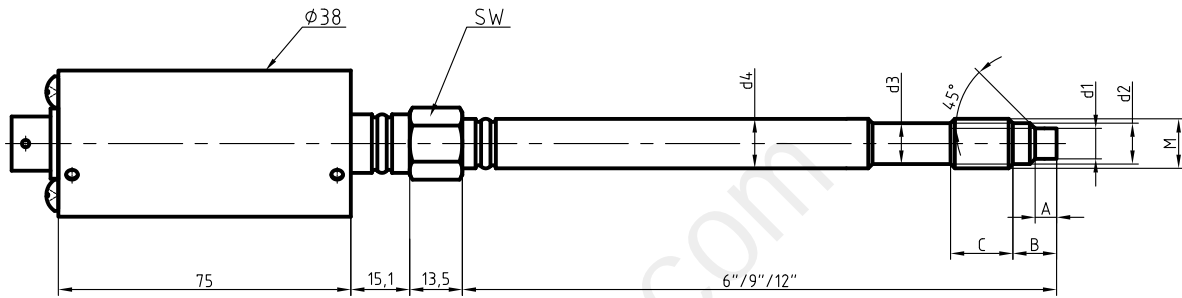
1. All values measured at 25°C(77°F)
 2. Including non-linearity, hysteresis and repeatability.
- The listed specifications and dimensions are subject to change without prior notice.

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
M14×1.5		φ11.8	φ11.8	φ13.5							
M18×1.5		φ9.8	φ15	φ15.5							

Ordering Information

Option1: Model		MPT600 Melt Pressure Transmitter					
Option2: Pressure Ranges		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					
Option3: Temperature Sensor		-					
Option4: Output Signal		42 4...20mA 05 0...5Vdc 10 0...10Vdc 20 2mV/V 33 3.33mV/V					
Option5: Accuracy		02 0.25%FSO 05 0.5%FSO 10 1.0%FSO					
Option6: Length of rigid stem		6 152mm(6") 9 230mm(9") 12 305mm(12") Lx Customized					
Option7: Mechanical Connection		U2 1/2-20UNF(male) M22 M22x1.5(male) M14 M14x1.5(male) G3 G3/8(male) M18 M18x1.5(male) Nx Customized					
MPT600	0350	42	02	6	U2	Examples of Ordering Code: MPT600-0350-42-02-6-U2	

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