# Model PM20T For High Tempererature Applications



### **Features**

- Measuring ranges from 350mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±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**

PM20T 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
-10bar	•		
00.35bar	•		•
00.7bar			•
01bar	•		•
01.6bar	•		•
02.5bar	•		•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	
0250bar		•	
0400bar		•	
0600bar		•	

Other pressure ranges available. Please consult the factory.

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

# **Performance Specifications**

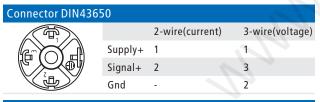
Parameter	Value			Units	Notes			
General								
Pressure Range	-1-0,,0-0.35,.	,600		bar	1bar=14.5	ipsi		
Overpressure	1.5xFS			bar				
Environmental								
Medium Temperature Range	0 to +150(stand	ard), 0 to +3	00	°C	32°F to 30	2°F		
Compensated Temperature Range	-10 to +70			°C	14°F to 158°F			
Environment Temperature Range	-20 to +85			°C	-4°F to 185°F			
Vibration	10			g	20 to 2000	Hz		
Shock	100			g	10ms			
Cycles	10 <sup>6</sup>			cycles				
Electrical @25°C(77°F)								
Output Signal	420mA	)5Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)		
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdc	5Vdc			
Load Resistance	<(Vs-12)/0.02A	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)						
Insulation Resistance	100MΩ@50Vdc	;						
Physical Specifications								
Media Compatibility	All media compa	All media compatible with 316L stainless steel						
Housing	304 stainless ste	304 stainless steel						
Diaphragm	316L stainless s	316L stainless steel						
Seal Ring	Viton or NBR	Viton or NBR						
Oil Filling	Silicone oil							
Protection	IP65(Standard),	IP65(Standard), IP66(only for cable outlet)						
Net Weight Net Weight	Approx.355g							
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes		
Performance					70			
Accuracy	0.1	0.25	0.5	%FS0	0	1,2		
Temp Coeff - Zero		±1	±1.5	%FS0	0	3		
Temp Coeff - Span		±1	±1.5	%FS0	0	3		
Long-Term Stability		±0.2	±0.3	%FS0	O/year	1		

### Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -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**



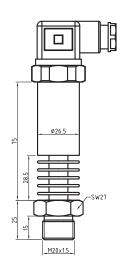
Cable outlet								
		2-wire(current)	3-wire(voltage)					
	Supply+	red	red					
	Signal+	black	green					
	Gnd	-	black					

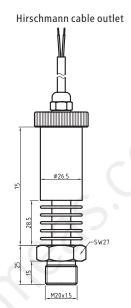
Connector M12x1(4-pin)							
_		2-wire(current)	3-wire(voltage)				
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1				
	Signal+	2	3				
	Gnd	-	2				

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# Dimensions (in mm)

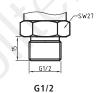






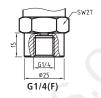
# Mechanical Connection (in mm)











# **Ordering Information**

Option1:												
PM20T	High-Temperature Pressure Transmitter											
	Option2: Pressure Ranges											
	N001	-10b			0060	06bar		000	0400bar			
	0003	00.3			0100	010bar	6	000	0600bar			
	0007	00.7			0160	016bar	C	XXX	Customized range			
	0010	01ba			0250	025bar						
	0016		01.6bar			060bar						
	0025	02.5			1000	0100ba						
	0040	04ba			2500	0250ba	r					
		-	13: Press	ure Type								
		G	gauge									
		Α	absolu									
		S	sealed									
					: Output Signal							
			42	420n								
			05	05Vc								
			15	15Vc								
			10	010V								
			45		0.54.5(ratiometric) Option5: Accuracy							
				02	0.25%							
				05	0.5%							
							ical Connection					
					D		tor DIN43650					
					Н	Hirschn	nann cable outlet,	lengt	h=1.5m			
					-	-						
					-	-			.1			
							7: Mechanical Co					
						M2	M20x1.5(male)		N1 1/4NPT(male)			
						G4	G1/4(male)		F4 G1/4(female)			
			10	0.2		G2	G1/2(male)		Nx Customized	5 42 02 D 64		
PM20T	0010	G	42	02	D	G4	Examples of Ord	ering	Code: PM20T-0010-0	u-42-02-D-G4		