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

Model PM20C For General Industrial Applications



Features

- Measuring ranges from 1.6bar to 250bar
- Gauge type
- Accuracy: ±0.5%FSO
- Calibrated and temperature compensated
- Ceramic pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM20C pressure transmitters offers the user the high stability of ceramic piezoresistive sensor in a low cost OEM package. The PM20C is developed for applications of processing and control operations involving aggressive media. The compactand rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Mechanical and plant engineering
- Pumps and compressors

Standard Pressure Range

Nomina	l pressure	gauge	sealed gauge	absolute
01	.6bar	•		
02	.5bar	•		
04	bar			
06	bar	•		
01	Obar	•		
01	6bar	•		
02	5bar	•		
04	Obar	•		
06	Obar	•		
01	00bar	•		
01	60bar	•		
02	50bar	•		

other pressure ranges available. Please consult the factory.

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Performance Specifications

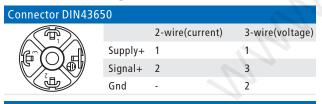
Parameter	Value			Units	Notes		
General							
Pressure Range	0-1.6,,250			bar	1bar=14.5psi		
Overpressure	1.5xFS			bar			
Environmental							
Operating Temperature Range	-20 to +85			°C	-4°F to 185°F		
Compensated Temperature Range	0 to +70			°C	32°F to 158°F		
Storage Temperature Range	-40 to +125			°C	-40°F to 257°F		
Vibration	10			g	20 to 2000Hz		
Shock	100			g	10ms		
Cycles	10x10 ⁵			cycles			
Electrical @25°C(77°F)							
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)	
Power Supply(Vs)	1236Vdc	1236Vdc	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 compatible with ceramic						
Housing	304 stainless st	304 stainless steel					
Diaphragm	Ceramic	Ceramic					
Seal Ring	Viton or NBR	Viton or NBR					
Oil Filling	1	1					
Protection	IP65(Standard), IP66(only for cable outlet)						
Net Weight Net Weight	Approx.175g						
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes	
Performance					70		
Accuracy	0.25	0.5	1.0	%FS	0	1,2	
Temp Coeff - Zero	±1.5 ±2.0			%FSO		3	
Temp Coeff - Span	±1.5 ±2.0			%FSO 3		3	
Long-Term Stability		±0.2	±0.3	%FS	0/year	1	

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. 0° C to 70° C(32°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



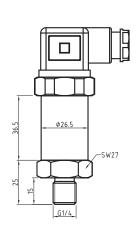
Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

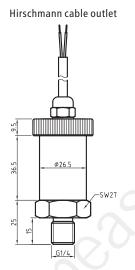
Connector M12x1(4-pin)							
		2-wire(current)	3-wire(voltage)				
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1				
4.002	Signal+	2	3				
	Gnd	-	2				

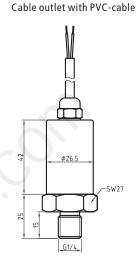
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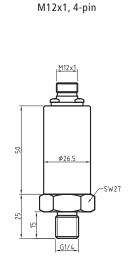
Dimensions (in mm)

Connector DIN43650









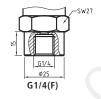
Mechanical Connection (in mm)











Ordering Information

Option1:	Model								
PM20C	Cerami	amic Pressure Transmitter							
	Option2: Pressure Ranges								
	0016	01.6	bar		0400 040bar				
	0025	02.5	bar	0600 060bar					
	0040	04ba	r		1000 0100bar				
	0060	06ba	•		1600	0160ba	•		
	0100	010b	ar		2500	0250ba	r		
	0160	016b			Cxxx	Customiz	ed range		
	0250	025b	ar						
		Option3: Pressure Type							
		G	gauge						
				n4: Outp		al			
	42 420mA								
			05		05Vdc 15Vdc				
			15						
			10 010Vdc						
			45 0.54.5(ratiometric)						
					15: Acc				
				05	0.5%F				
				10 1.0%FSO					
					Option6: Electrical Connection D Connector DIN43650				
					D				F
					H				
					M			iengtr	mc.1=r
					IVI	M12x1, 4-pin Option7: Mechanical Connection			
						M2	M20x1.5(male)	N1	n 1/4NPT(male)
						1VI Z	G1/4(male)	F4	G1/4(female)
						G2	G1/4(male)	Nx	Customized
PM20C	0060	G	42	05	D	G2			le: PM20C-0060-G-42-05-D-G4
PIVIZUC	0000	<u> </u>	T 4Z			04	Lxamples of Orderin	ig Cou	16. TW20C-0000-0-42-03-D-04