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

Model PM20G For General Industrial Applications



Features

- Measuring ranges from 5bar to 600bar
- Absolute, gauge
- Accuracy: ±0.5%FSO or ±1.0%FSO
- Calibrated and temperature compensated
- Stainless steel mono-block construction
- Advanced microfused silicon strain gauge
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

The PM20G is based on MEMS technology (microelectromechanical system). Through high temperature, silicon strain gauge is sintered on 17-4PH stainless steel sensor elastomer, which is integrated with the pressure connector.

This model provides a very high long-term stability. The transmitter is featured with no O-ring, free of leakage risks. The compact and 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
- Automatic testing system
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
05bar	•		•
010bar	•		•
016bar			•
025bar	•		•
040bar	•		•
060bar	•		•
0100bar	•		•
0160bar	•		•
0200bar	•		•
0250bar	•		•
0300bar	•		•
0400bar	•		•
0500bar	•		•
0600bar	•		•

Other pressure ranges available. Please consult the factory.

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Performance Specifications

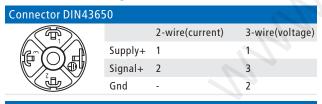
Parameter	Value			Units	Notes		
General							
Pressure Range	0-5,,600			bar	1bar=14.5	psi	
Overpressure	3xFS			bar			
Environmental							
Operating Temperature Range	-20 to +85			°C	-4°F to 18	-4°F to 185°F	
Compensated Temperature Range	-20 to +85			°C	-4°F to 18	5°F	
Storage Temperature Range	-40 to +105			°C	-40°F to 221°F		
Vibration	20			g	20 to 2000)Hz	
Shock	100			g	10ms		
Cycles	10x10 ⁶			cycles			
Electrical @25°C(77°F)							
Output Signal	420mA 05Vdc 010Vdc			0.54.5Vdc(ratiometric)			
Power Supply(Vs)	930Vdc	930Vdc 930Vdc 1530Vdc 5Vdc					
Load Resistance	$<$ (Vs-12)/0.02A (For current output), $>$ 10k Ω (For voltage output)						
Insulation Resistance	100MΩ@50Vdc	100MΩ@50Vdc					
Physical Specifications							
Media Compatibility	All media compatible with 17-4PH stainless steel						
Housing	304 stainless sto	304 stainless steel					
Diaphragm	17-4PH stainless steel						
Seal Ring	1	1					
Oil Filling	1						
Protection	IP65						
Net Weight Net Weight	Approx.220g						
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes	
Performance							
Accuracy		0.5	1.0	%FS	0	1,2	
Temp Coeff - Zero		±0.02	±0.03	%FS	0/°C	3	
Temp Coeff - Span		±0.02	±0.03	%FS	O/°C	3	
Long-Term Stability		±0.3	±0.5	%FS	O/year	1	

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -20°C to 85°C(-4°F to 185°F) with reference to 25°C(77°F).

The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams



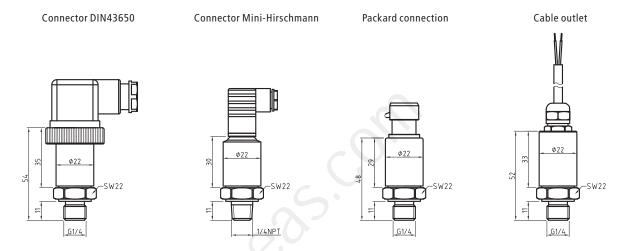
Cable outlet							
		2-wire(current)	3-wire(voltage)				
	Supply+	red	red				
	Signal+	black	green				
	Gnd	-	black				

Packard Connection							
		2-wire(current)	3-wire(voltage)				
	Supply+	Α	Α				
	Signal+	В	C				
	Gnd	-	В				

VOLLTEL

Silicon Strain Gauge Pressure Transmitter

Dimensions (in mm)



Ordering Information

Option1										
PM20G	Silicon	n Strain Gauge Pressure Transmitter								
	Option	2: Press	ure Ran	ges						
	0050	05ba	ar 2000 0200bar							
	0100	010	bar	ar 2500 0250bar						
	0160	016	bar	ar 3000 0300bar						
	0250	025	bar	ar 4000 0400bar						
	0400	040		ar 5000 0500bar						
	0600	060	bar		6000	0600ba	r			
	1000	0100			Cxxx	Customiz	ed range			
		Option	n3: Press	ure Type	•					
		G	gauge							
		Α	absolu	te						
		-	-							
				n4: Outp		al				
			42		420mA 05Vdc 010Vdc 0.54.5(ratiometric)					
			05							
			10							
			45	0.54						
			-	-						
					n5: Accı					
				05 0.5%FSO						
				10 1.0%FSO						
							rical Connection			
					D Connector DIN43650					
					H Connector Mini-Hirschmann C Packard connection M Cable outlet with PVC-cable, length=1.5m Option7: Mechanical Connection					
						M2	M20x1.5(male)	N4	1/4NPT(male)	
						G4	G1/4(male)	U7	7/16-20UNF(male)	
D14206	04.50		42	0.5	D.	G2	G1/2(male)	Nx	Customized	
PM20G	0160	G	42	05	D	G4	Examples of Order	ing Cod	e: PM20G-0160-G-42-05-D-G4	