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

Model PM20F For General Industrial Applications



Features

- Measuring ranges from 16bar to 600bar
- Gauge type
- Accuracy: ±0.25%FSO, ±0.5%FSO
- Calibrated and temperature compensated
- Foil strain gauge pressure sensor design
- Fully welded structure, no-ring inside
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM20F metal foil strain gauge pressure transmitter is designed for superior high pressure applications up to 600bar. This model provides a very high long-term stability and a very good accuracy. 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
- Hydraulic systems and valve
- Mechanical and plant engineering
- Test equipment

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
016bar	•		
025bar	•		
040bar			
060bar	•		
0100bar	•		
0160bar	•		
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	0-16,,600			bar	1bar=14.5	ipsi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-40 to +85			°C	-40°F to 1	85°F
Compensated Temperature Range	0 to +70			°C	32°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA)5Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdd	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	atible with st	ainless steel			
Housing	304 stainless ste	eel				
Diaphragm	stainless steel					
Seal Ring	1					
Oil Filling	1					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight	Approx.280g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±1.0	±1.5	%FS	0	3
Temp Coeff - Span		±1.0	±1.5	%FS	0	3
Long-Term Stability		±0.2	±0.3	%FS	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(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



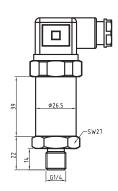
Cable outlet	Lable outlet								
		2-wire(current)	3-wire(voltage)						
	Supply+	red	red						
	Signal+	black	green						
	Gnd	-	black						

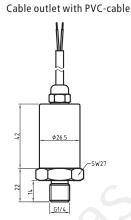
Connector M12x1(M12x1(4-pin)							
_		2-wire(current)	3-wire(voltage)					
3 • • 1 4 • • 2	Supply+	1	1					
4. • 2	Signal+	2	3					
	Gnd	-	2					

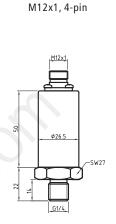
Metal Strain Gauge Pressure Transmitter

Dimensions (in mm)

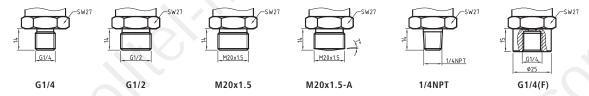
Connector DIN43650







Mechanical Connection (in mm)



Ordering Information

Option1:											
PM20F				e Transmi	tter						-
			ure Ran	ges						Z_{i}	
	0160	016k	oar		4000	0400ba	r				
	0250	025k	oar		6000	0600ba	r				
	0400	040k			Cxxx	Customize	ed range				
	0600	060bar									
	1000	0100									
	1600	0160bar									
	2500	0250)bar								
			13: Press	ure Type							
		G	gauge								
				n4: Outp		al					
			42	420m							
	05 05Vdc										
		15 15Vdc									
			10	010V							
			45	0.54.5(ratiometric)							
					Option5: Accuracy						
				02	0.25%						
				05	0.5%						
							ical Connection				
					D		tor DIN43650				
					C		utlet with PVC-cable	,length	n=1.5m		
					M	M12x1,					
					Option7: Mechanical Connection						
						M2	M20x1.5(male)	G2	G1/2(male)	Nx	Customized
						M2A	M20x1.5-A(male)	N1	1/4NPT(male)		
				0.0		G4	G1/4(male)	F4	G1/4(female)	10.05	
PM20F	0400	G	42	02	D	G4	Examples of Orderi	ng Cod	e: PM20F-0400-G-	42-02-	D-G4