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

Model PM400 With Display For Field Applications



Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- 3-1/2 digits LCD indicator
- Piezoresistive pressure sensor design
- Variety of Pressure connections
- Output 4...20mA

Product Overview

PM400 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. Equipped with an digits dispaly, PM400 provide an easy solution for field testing applications. 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 options are available to meet almost requirement.

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-10bar	•	()	
-0.350bar	•		
-0.20bar			
00.1bar	•		
00.2bar	•		
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.

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Performance Specifications

Parameter	Value		Units	ts Notes			
General							
Pressure Range	-1-0,,0-0.1,		bar	1bar=14.	5psi		
Overpressure	1.5xFS			bar			
Environmental							
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F	
Compensated Temperature Range	-10 to +70			°C	14°F to 15	i8°F	
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F	
Vibration	10			g	20 to 2000	OHz	
Shock	100			g	10ms		
Cycles	10x10 ⁶			cycles			
Electrical @25°C(77°F)							
Output Signal	420mA						
Power Supply(Vs)	1236Vdc						
Load Resistance	<(Vs-12)/0.02A	(For current outp	ut)				
Insulation Resistance	100MΩ@50Vd						
Physical Specifications							
Media Compatibility	All media comp	All media compatible with 316L stainless steel					
Housing	304 stainless st	304 stainless steel					
Diaphragm	316L stainless s	316L stainless steel					
Seal Ring	Viton or NBR						
Oil Filling	Silicone oil						
Protection	IP65(Standard),	IP66(only for cal	ole outlet)				
Net Weight	Approx.285g						
Parameter	Minimum	Typical	Maxim	um Uni	ts	Notes	
Performance					00		
Accuracy	0.1	0.25	0.5	%F:	50	1,2	
Temp Coeff - Zero	±0.75 ±1.5				50	3	
Temp Coeff - Span	±0.75 ±1.5 %FSO				3		
Long-Term Stability	±0.2 ±0.3 %FSO/year 1					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).

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

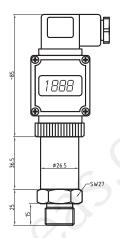
Connection Diagrams

Connector DIN4365	50		
		2-wire(current)	3-wire(voltage)
	Supply+	1	1
	Signal+	2	3
	Gnd	-	2

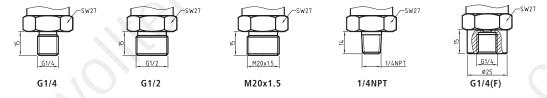
Cable outlet							
		2-wire(current)	3-wire(voltage)				
	Supply+	red	red				
	Signal+	black	green				
	Gnd	-	black				

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Dimensions (in mm)



Mechanical Connection (in mm)



Ordering Information

Option1:	Model										
PM400	Piezoresistive Pressure Transmitter										
	Option2: Pressure Ranges										
	N001 -10bar				0016 01.6bar 0600 060b			060bar			
	N002	-0.35.	0bar		0025	02.5bar		1000	0100bar		
	N003	-0.2	0bar		0040			2500	0250bar		
	0001	00.1	bar		0060	06bar)6bar		0400bar		
	0003	00.3	5bar		0100	010bar		6000	0600bar		
	0007 00.7bar				0160	016bar		Сххх	Customized range		
0010 01bar				0250	025bar						
		Option	n3: Press	ure Type							
		G	gauge								
		Α	absolu	te							
		S sealed gauge									
			Optio		tput Signal						
	42 420					20mA					
			-	-							
				_		: Accuracy					
				02	0.25%						
				05							
					Option6: Electrical Connection M1 Connector DIN43650,3-1/2 digits LCD indicator						
					M2	Connec	tor DIN43650,3	-1/2 di	gits LED indicator		
					-	-					
							7: Mechanical				
						M2	M20x1.5(male		N1 1/4NPT(male)		
						G4	G1/4(male)		F4 G1/4(female)		
						G2	G1/2(male)		Nx Customized		
PM400	0010	G	42	02	M1	G4	Examples of 0	rdering	g Code: PM400-0010-G	-42-02-M1-G4	