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

Model PM300 Food and Beverage Industry



Features

- Measuring ranges from 1bar to 100bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM300 is made from high-quality silicon piezoresistive chip. All process connections of the fush pressure transmitter are made of stainless steel, fully welded and isolate the process medium from the pressure measuring instrument via a positive seal. The PM300 is precision engineered to fit food, pharmaceutical and chemical liquid pressure measurement.

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

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01bar	•		•
01.6bar	•		•
02.5bar			•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	

Other pressure ranges available. Please consult the factory.

Applications

- Process control systems
- Food and beverage
- Medical
- Papermaking

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Performance Specifications

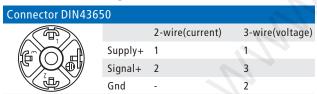
Parameter	Value			Units	Notes		
General							
Pressure Range	0-1,,100			bar	1bar=14	.5psi	
Overpressure	1.5xFS	1.5xFS					
Environmental							
Operating Temperature Range	-20 to +85(stan	-20 to +85(standard), -20 to +150			-4°F to 1	85°F	
Compensated Temperature Range	-10 to +70			°C	14°F to 158°F		
Storage Temperature Range	-40 to +125			°C	-40°F to 257°F		
Vibration	10			g	20 to 2000Hz		
Shock	100	100			10ms		
Cycles	10x10 ⁵	10x10 ⁵			cycles		
Electrical @25°C(77°F)							
Output Signal	420mA)5Vdc	15Vdc	010Vdc	0.54	.5Vdc(ratiometric	
Power Supply(Vs)	1236Vdc 1	1236Vdc	1236Vdc	1536Vd	c 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 compatible with 316L stainless steel						
Housing	304 stainless steel						
Diaphragm	316L stainless steel						
Seal Ring	Viton or NBR						
Oil Filling	Silicone oil	Silicone oil					
Protection	IP65(Standard)						
Net Weight Net Weight	Approx.285g						
Parameter	Minimum	Typical	Maxim	um Uni	ts	Notes	
Performance			·		00		
Accuracy	0.1	0.1 0.25 0.5		%FS	50	1,2	
Temp Coeff - Zero		±1.5 ±2		%FS	50	3	
Temp Coeff - Span		±1.5 ±2			50	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.
- $3.-10^{\circ}C$ to $70^{\circ}C(14^{\circ}F$ to $158^{\circ}F)$ with reference to $25^{\circ}C(77^{\circ}F)$.

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

Connection Diagrams

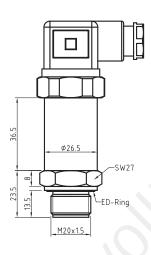


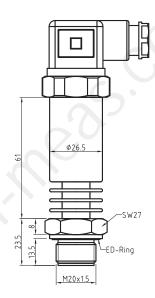
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

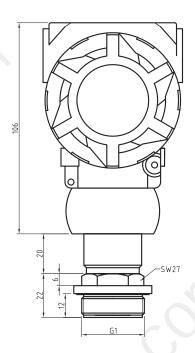
Flush Diaphragm Pressure Transmitter

Dimensions (in mm)

Connector DIN43650 Operating Temperature Range -40 to +85°C Connector DIN43650 Operating Temperature Range -40 to +150°C 2088 housing Operating Temperature Range -40 to +85°C







Ordering Information

Option1:	Model									
PM300	Flush Di	aphragn	n Pressur	e Transmi	tter					
	Option	2: Press	ure Rang	ges						
	0010 01bar				0250	025bar				
	0016	01.6	bar		0400	040bar				
	0025	02.5	bar		0600	060bar				
	0040	04ba	4bar 100							
	0060	06ba	06bar Cxxx				Customized range			
	0100	010b	010bar							
	0160	016bar								
	Option3: Pressure Type									
		G	gauge							
	A absolute									
		S	sealed							
			Option	Option4: Output Signal						
			42		420mA 05Vdc 15Vdc 010Vdc					
			05							
			15							
			10							
			45		0.54.5(ratiometric)					
					15: Accu	-				
					02 0.25%FSO					
				05	0.5%F					
							ical Connection			
					DL		or DIN43650, Operating Temperature Range:-40 to +85°C			
					DH		or DIN43650, Operating Temperature Range:-40 to +150°C			
					Н	2088 ho	using, Operating Temperature Range:-40 to +85°C			
					-	-				
							7: Mechanical Connection			
						M2	M20x1.5(male) N2 1/2NPT(male)			
						G2	G1/2(male) Nx Customized			
						G10	G1(male)			
PM300	0010	G	42	02	D	G2	Examples of Ordering Code: PM300-0010-G-42-02-D-G2			