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

### Model PM230 For General Industrial 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
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

### **Product Overview**

Pm230 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The PM230 is precision engineered to fit most industrial pressure measurement. 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
- 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**

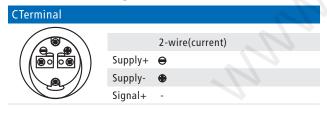
Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-0.1,,600			bar	1bar=14.	5psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 1!	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	:57°F
Vibration	10			g	20 to 200	0Hz
Shock	100					
Cycles	10x10 <sup>6</sup>			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA					
Power Supply(Vs)	1236Vdc					
Load Resistance	$<$ (Vs-12)/0.02A (For current output), $>$ 10k $\Omega$ (For voltage output)					
Insulation Resistance	100MΩ@50Vd	С				
Physical Specifications						
Media Compatibility	All media comp	atible with 316	L stainless ste	eel		
Electronic Housing	Aluminum alloy	1				
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65					
Net Weight Net Weight	Approx.425g					
Parameter	Minimum	Typical	Maximu	m Uni	ts	Notes
Performance					00	
Accuracy	0.1	0.25	0.5	%FS	50	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	50	3
Temp Coeff - Span		±0.75	±1.5	%FS	50	3
Long-Term Stability		±0.2	±0.3	%F9	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(14°F to 158°F) with reference to 25°C(77°F).

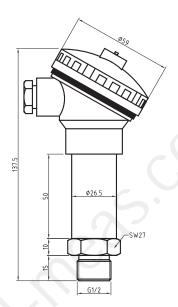
The listed specifications and dimensions are subject to change without prior notice.

### **Connection Diagrams**

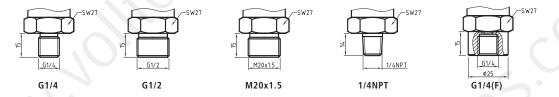


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### Dimensions (in mm)



### Mechanical Connection (in mm)



### **Ordering Information**

PM230	Piezore	sistive P	ressure T	ransmitte	r					
			ure Ran							
	N001				0016	01.6bar	r 0600 060bar			
	N002	-0.350bar			0025	02.5bar	r 1000 0100bar			
	N003	-0.20bar 00.1bar 00.35bar 00.7bar			0040	04bar	2500 0250bar			
	0001				0060	06bar	4000 0400bar			
	0003				0100	010bar	6000 0600bar			
	0007				0160	016bar	Cxxx Customized range			
	0010									
		Option	otion3: Pressure Type							
		G	gauge							
		Α	absolu							
		S	sealed		4: Output Signal					
			_							
			42	420r	420mA					
			-	-		1/2				
					n5: Accı					
				02	0.25%					
				05	0.5%F					
					_	rical Connection				
					T	Termina	al			
					-	-	7 M. J. C. J. C			
					Option7: Mechanical Connection					
						M2	M20x1.5(male) N1 1/4NPT(male)			
						G4	G1/4(male) F4 G1/4(female) G1/2(male) Nx Customized			
D14226	0040	6	42	02	T	G2 G4	G1/2(male) Nx Customized Examples of Ordering Code: PM230-0010-G-42-02-T-G4			
PM230	0010	G	42	02		G4	Examples of Ordering Code: PW230-0010-G-42-02-1-G4			