# Model PM410 Smart Pressure Transmitters



### **Features**

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

### **Product Overview**

PM410 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
- Petroleum industry
- Hydraulic systems and valve
- Machine building
- Chemical industry

## **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.

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

# **Performance Specifications**

Parameter	Value		Un	its	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 185°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		g		10ms	
Cycles	10x10 <sup>6</sup>		сус	les		
Electrical @25°C(77°F)						
Output Signal	420mA	420mA with HART	420mA	with RS485-	-MODBUS	
Power Supply(Vs)	1236Vdc	1236Vdc 1236Vdc 1236				
Load Resistance	<(Vs-12)/0.02A	<(Vs-12)/0.02A (For current output)				
Insulation Resistance	100MΩ@50Vd					
Physical Specifications						
Media Compatibility	All media comp	atible with 316L sta	inless steel			
Electronic Housing	Aluminum alloy					
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard)					
Net Weight Net Weight	Approx.1.2kg					
Parameter	Minimum	Typical	Maximum	Units	No	tes
Performance					>0	
Accuracy	0.1	0.25	0.5	%FSO	1,2	
Temp Coeff - Zero		±0.75	±1.5	%FSO	3	
Temp Coeff - Span		±0.75	±1.5	%FSO	3	
Long-Term Stability		±0.2	±0.3	%FSO	/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).

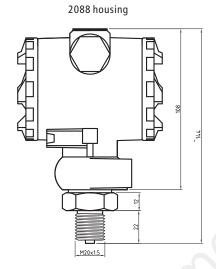
The listed specifications and dimensions are subject to change without prior notice.

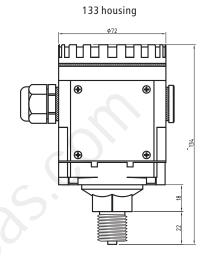
# **Connection Diagrams**

Terminal		
		2-wire(current)
	Supply+	Α
	Supply+ Signal+	В
	-	-
	-	-

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# Dimensions (in mm)





# Mechanical Connection (in mm)











# **Ordering Information**

Option1:	Model									
PM410 Piezoresistive Pressure Transmitter										
	Option2: Pressure Ranges									
	N001	02 -0.350bar 03 -0.20bar			0016	01.6baı	. 06	00	060bar	
	N002				0025	02.5baı	10	00	0100bar	
	N003				0040	04bar	25	00	0250bar	
	0001	00.1	bar		0060	06bar	40	00	0400bar	
	0003	00.3	5bar		0100	010bar	60	00	0600bar	
	0007	00.7	bar		0160	016bar	Cx	XX	Customized range	
	0010	01bar			0250	025bar				
		Option3: Pressure Type								
		G	gauge							
	A absolute									
		S	sealed							
			Option	14: Outp	Output Signal					
			42	420r	nA					
			42H		nA with H					
			42R		20mA with RS485-MODBUS					
					n5: Accu					
				02	0.25%FSO 0.5%FSO Option6: Electrical Housing					
				05						
					2088		•			
					133	133 ho	using			
					-	-				
						Option7: Mechanical Connection				
						M2	M20x1.5(male)	N		
						G4	G1/4(male)	F		
						G2	G1/2(male)	N		
PM410	0010	G	42	02	2088	G4	Examples of Orde	ring (	Code: PM410-0010-G-42-02-2088-G4	