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.

Heavy Duty Pressure Transmitter

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 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	10			20 to 2000Hz		
Shock	100	100			10ms		
Cycles	10x10 ⁶	10x10 ⁶			ycles 10ms		
Electrical @25°C(77°F)							
Output Signal	420mA 420mA with HART 420			mA with RS485-MODBUS			
Power Supply(Vs)	1236Vdc 1236Vdc 12			36Vdc			
Load Resistance	<(Vs-12)/0.02A (For current output)						
Insulation Resistance	100MΩ@50Vdc						
Physical Specifications							
Media Compatibility	All media compatible with 316L stainless steel						
Electronic Housing	Aluminum alloy						
Diaphragm	316L stainless steel						
Seal Ring	Viton or NBR						
Oil Filling	Silicone oil						
Protection	IP65(Standard)						
Net Weight	Approx.1.2kg						
Parameter	Minimum	Typical	Maxim	um U	nits	Notes	
Performance							
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 %FS		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).

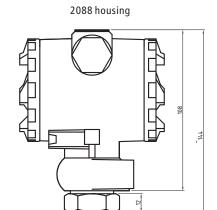
 $The\ listed\ specifications\ and\ dimensions\ are\ subject\ to\ change\ without\ prior\ notice.$

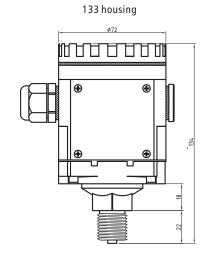
Connection Diagrams

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

Heavy Duty Pressure Transmitter

Dimensions (in mm)





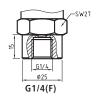
Mechanical Connection (in mm)











Ordering Information

Option1:										
Option2: Pressure I N001 -10bar	Piezoresistive Pressure Transmitter									
	Option	2: Press	ure Rang	ges						
	N001					01.6bar		0600	06	60bar
	N002	-0.35	-0.350bar			02.5bar		1000	0	.100bar .250bar
	N003				0040	04bar		2500	02	
				06bar		4000	0400bar			
	0003 00.35bar 0007 00.7bar	5bar			010bar 600		6000	0600bar		
			0160	016bar		Cxxx	Cus	tomized range		
	0010	01ba	ar		0250	025bar				
		Option	13: Press	ure Type						
		G	gauge							
		Α	absolu							
		S	sealed							
				n4: Outp						
			42	420m						
			42H		OmA with HART					
			42R	-		•				
					5: Accu					
				02	0.25%					
				05	0.0 /0.00					
					Option6: Electrical Housing					
					2088		-			
					133	133 ho	using			
					-	-				
						Option7: Mechanical Connection				
						M2	M20x1.5(male	•	N1	1/4NPT(male)
						G4	G1/4(male)		F4	G1/4(female)
			40			G2	G1/2(male)		Nx	Customized
PM410	0010	G	42	02	2088	G4	Examples of Or	dering	Code	e: PM410-0010-G-42-02-2088-G4