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

Model PM210 For High Pressure Applications



Features

- Measuring ranges from 100bar to 6000bar
- Gauge type
- Accuracy: ±0.25%FSO, ±0.5%FSO
- Calibrated and temperature compensated
- Foil strain gauge pressure sensor design
- Fully welded structure, no-ring inside
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM210 metal foil strain gauge pressure transmitter is designed for superior high pressure applications up to 6,000bar. This model provides a very high long-term stability and a very good accuracy. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems, valves and test equipment. A wide range of process connection and electrical connection options are available to meet almost requirement.

Applications

- Process control systems
- Hydraulic systems and valve
- Machine building
- Test equipment

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
0100bar	•		
0250bar	•		
0400bar			
0600bar	•		
01000bar	•		
02500bar	•		
04000bar	•		
05000bar	•		
06000bar	•		

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

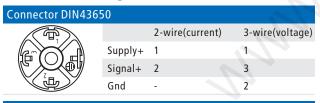
Parameter	Value			Units	Notes	
General						
Pressure Range	0-100,,6000			bar	1bar=14.	5psi
Overpressure	1.25xFS			bar		
Environmental						
Operating Temperature Range	-40 to +85			°C	-40°F to 1	85°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 200	0Hz
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.	5Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1236Vdc 1536Vdc 5Vdc					
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdd					
Physical Specifications						
Media Compatibility	All media compa	atible with st	ainless steel			
Housing	304 stainless st	304 stainless steel				
Diaphragm	alloy steel	alloy steel				
Seal Ring	1					
Oil Filling	1					
Protection	IP65					
Net Weight Net Weight	Approx.510g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					70	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.02	±0.03	%FS	0/°C	3
Temp Coeff - Span		±0.02	±0.03	%FS	0/°C	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°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

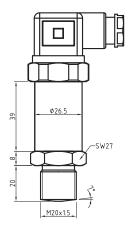
The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

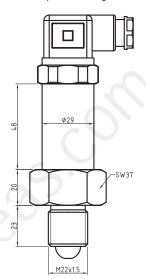


Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Connector M12x1(4-pin)					
		2-wire(current)	3-wire(voltage)		
	Supply+	1	1		
	Signal+	2	3		
	Gnd	-	2		



1600bar < pressure ranges ≤ 6000bar



Ordering Information

Option1								
PM210	Foil Stra	ain Gaug	in Gauge Pressure Transmitter					
	Option	2: Press	ure Ran	ges				
	1000	0100	0100bar 5000 05001bar				ar	
	2500	0250	0250bar 6000 06001bar				ar	
	4000	0400	Obar		Cxxx	Customiz	ed range	
	6000	0600	Obar					
	1000	0100	00bar					
	2501	0250	00bar					
	4001	0400	00bar					
		Option	n3: Press	ure Type				
		G	gauge					
			Optio	n4: Outp		al		
			42	420mA 05Vdc 15Vdc				
			05					
			15					
			10	010Vdc				
			45	0.54.5(ratiometric)				
				Option				
				02	0.25%			
				05	0.5%			
			Option6: Electrical Connection					
D Connector DIN43650								
					С		outlet with PVC-cable,length=1.5m	
	M M12x1, 4-pin Option7: Mechanical Connection							
						M2	M20x1.5(male) Nx Customized	
						G2	G1/2(male)	
						M22	M22x1.5(male)	
PM210	4000	G	42	02	D	M2	Examples of Ordering Code: PM210-4000-G-42-02-D-M2	