Model PM220

For Aggressive Media Applications

Features

- Measuring ranges from 1.6bar to 25bar
- Gauge type
- Accuracy: ±0.5%FSO
- Calibrated and temperature compensated
- Ceramic pressure sensor design
- Pressure port PVDF
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM220 pressure transmitters offers the user the high stability of ceramic piezoresistive sensor in a OEM package. The PM220 is developed for applications of processing and control operations involving aggressive media. The compactand rugged design makes these pressure transmitter suitable for applications including process control systems, chemical industry, refrigeration, level measurement and test equipment.

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

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
0...1.6bar	●		
0...2.5bar	●		
0...4bar	●		
0...6bar	●		
0...10bar	●		
0...16bar	●		
0...25bar	●		

other pressure ranges available. Please consult the factory.

Applications

- Process control systems
- Chemical industry
- Hydraulic systems and valve
- Mechanical and plant engineering

Performance Specifications

Parameter	Value				Units	Notes
General						
Pressure Range	0-1.6,...,25				bar	1bar=14.5psi
Overpressure	1.5xFS				bar	
Environmental						
Operating Temperature Range	-20 to +85				°C	-4°F to 185°F
Compensated Temperature Range	0 to +70				°C	32°F to 158°F
Storage Temperature Range	-20 to +125				°C	-4°F to 257°F
Vibration	10				g	20 to 2000Hz
Shock	100				g	10ms
Cycles	$10x10^6$				cycles	
Electrical @25°C(77°F)						
Output Signal	4...20mA	0...5Vdc	1...5Vdc	0...10Vdc	0.5...4.5Vdc(ratiometric)	
Power Supply(Vs)	12....36Vdc	12....36Vdc	12....36Vdc	15....36Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)					
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compatible with ceramic					
Housing	304 stainless steel					
Diaphragm	Ceramic					
Seal Ring	Viton or NBR					
Oil Filling	/					
Protection	IP65(Standard), IP66(only for cable outlet)					
Net Weight	Approx.175g					

Parameter	Minimum	Typical	Maximum	Units	Notes
Performance					
Accuracy	0.25	0.5	1.0	%FSO	1,2
Temp Coeff - Zero		±1.5	±2.0	%FSO	3
Temp Coeff - Span		±1.5	±2.0	%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. 0°C to 70°C(32°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

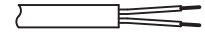
Connector DIN43650

	2-wire(current)	3-wire(voltage)
Supply+	1	1
Signal+	2	3
Gnd	-	2

Connector M12x1(4-pin)

	2-wire(current)	3-wire(voltage)
Supply+	1	1
Signal+	2	3
Gnd	-	2

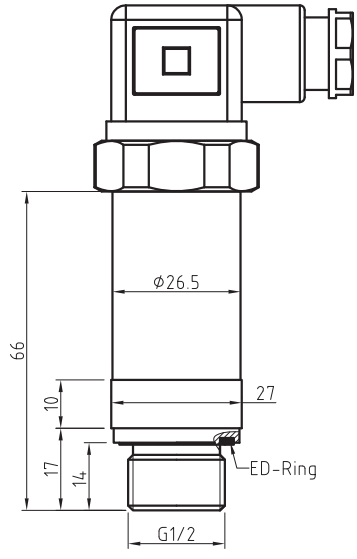
Cable outlet



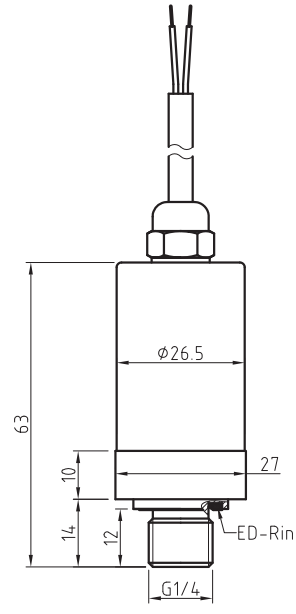
	2-wire(current)	3-wire(voltage)
Supply+	red	red
Signal+	black	green
Gnd	-	black

Dimensions (in mm)

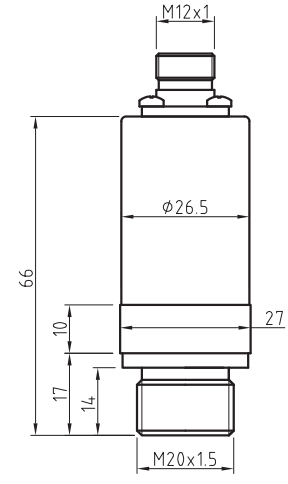
Connector DIN43650



Cable outlet with PVC-cable



M12x1, 4-pin



Ordering Information

Option1: Model							
PM220	Ceramic Pressure Transmitter						
	Option2: Pressure Ranges						
	0016	0...1.6bar					
	0025	0...2.5bar					
	0040	0...4bar					
	0060	0...6bar					
	0100	0...10bar					
	0160	0...16bar					
	0250	0...25bar					
		Option3: Pressure Type					
		G	gauge				
			Option4: Output Signal				
			42	4...20mA			
			05	0...5Vdc			
			15	1...5Vdc			
			10	0...10Vdc			
			45	0.5...4.5(ratiometric)			
				Option5: Accuracy			
				05	0.5%FSO		
				10	1.0%FSO		
					Option6: Electrical Connection		
					D	Connector DIN43650	
					H	Hirschmann cable outlet,length=1.5m	
					C	Cable outlet with PVC-cable,length=1.5m	
					M	M12x1, 4-pin	
						Option7: Mechanical Connection	
						M2	M20x1.5(male) Nx Customized
						G4	G1/4(male)
						G2	G1/2(male)
PM220	0060	G	42	05	D	G4	Examples of Ordering Code: PM220-0060-G-42-05-D-G4