



# **P1200**

## **SPECIFICATIONS**

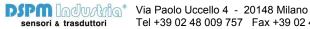
- Rugged Design for Harsh Environments
- High Burst Pressure Limit
- High Reliability
- Low and High Level Output Signals

The P1200 Series pressure transducers and transmitters provide high accuracy pressure measurement of liquids and gases. These robust transducers combine hybrid electronics with highly reliable strain gauge sensing technology to offer superior performance in rugged applications. Constructed from media compatible 17-4 PH stainless steel, the P1200 provides exceptional performance in extreme environments.

Accuracy of the P1200 is guaranteed to be within  $\pm 0.20\%$  F.R.O. over a wide temperature compensated range of  $-20^{\circ}$ C to  $80^{\circ}$ C. The P1200 is available with either cable or connector terminations or offers a variety of outputs including 0-20 mV, 0-100 mV, 0-5 V and 4-20 mA. Six selectable pressure ports are available to suit most application requirements. Pressure ranges include 0-75 psi to 10,000 psi (0-5 bar to 700 bar) and can be referenced in absolute, sealed or vented gauge. The P1200 Series maintains a high burst rate of greater that 20x the rated pressure and 5x overpressure limit without damage to the sensor due to a positive over travel stop.

For parts requiring RoHS compliance, please contact factory.

#### SENSOR SOLUTIONS ///P1200



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## **FEATURES**

- Typical Accuracy of  $< \pm 0.15\%$  F.R.O. •
- Cable/Connector Termination •
- Stainless Steel Media Isolated •
- 5x Overpressure Protection •
- High and Low Level Output •

## **APPLICATIONS**

- Vehicle Brake System Monitoring •
- Gas Production •
- Farm Machinery •
- Hydraulic Control Monitoring •

#### **PERFORMANCE SPECS**

Series	P1200	P1230	P1240	P1260	P1280
Model Number	P1221/3	P1231/3	P1241/3	P1261/3	P1281/3
Input Voltage	10VDC (12 V max)	10VDC (12 V max)	10VDC (12 V max)	18-32VDC	10-36VDC
Impedance (ohms)	1000 to 1600	-	-	-	-
Current (mA max)	10	12	12	25	-
Full Range Output (±2%)	20mV	100mV	5VDC	5VDC	4-20 mA (16 mA±2%)
Impedance (ohm)	1000 ±50	<10	<10	<10	Load Resistance 1300 ohm (max) at 36VDC
Current (mA max)	-	-	5	5	-
Frequency Response	2.5 to 40 kHz	2 kHz	2 kHz	1 kHz	1 kHz
Residual Unbalance	<±2	<±2	<±2	<±2	4.0 mA +2-0
Weight oz (gm)	3.4 (95)	4.4 (125)	4.4 (125)	4.4 (125)	4.4 (125)



 
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# **COMMON SPECIFICATIONS**

Pressure	Ranges	
High	(psi)	0-75, 100, 150, 220, 250, 350, 500, 750, 1000, 1500, 2200, 2900, 3500, 5000, 7500,
		10,000
	(bar)	0-5, 7, 10, 15, 20, 25, 35, 50, 70, 100, 150, 200, 250, 350, 500, 700
DIN	(bar)	6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 600
Pressure	References	Vented gauge (Sensors should only breathe dry noncorrosive gases. Sealed gauge and absolute to
		special order).
Pressure	-	>5x full range pressure or 12,000 psi (830 bar), whichever is less.
Burst Pre		>20 x full range pressure or 22,000 psi (1,520 bar), whichever is less
Pressure	Media	Liquids or gases compatible with 17-4 PH stainless steel
0		
	d Non-linearity	•
	-repeatability	<±0.15% F.R.O. (typ); ±0.20% F.R.O. max (BSL) – high range
•	ture Range	
Operable		-65°F to 185°F (-54°C to 85°C) [P1221/4 -65°F to 250°F (-54°C to 120°C)]
Compens	sated	-4°F to 185°F (-20°C to 85°C) [P1221/4 -4°F to 212°F (-20°C to 100°C)]
Storage	d Thermal Zero	-65°F to 250°F (-54°C to 120°C)
	sitivity Shift ermal Error Bar	<±0.010% F.R.O./°F (±0.02% F.R.O./°C) over compensated temperature range
	g NLH) %F.R.O	-
(includin	у №ГЛ) %Г.П.О	<ul> <li>-4° to 185°F (-20°to 85 °C ±1.2% typical, ±2.0% max. (over compensated temperature range)</li> </ul>
Shook D	esistance	1000 g for 5 msec
	Resistance	Surpasses MIL STD810C Method 514-2 Curve L and EUROCAE ED 14A/RTCA 160A
Humidity		Sulpasses Mile STD0100 Method ST4-2 Ourve L and ECHOCAL ED 14AMTOA TODA
	or Version	95% Relative humidity
Cable Ve		Immersible to IP67
EMC	131011	Emissions to EN55022 (CISPR 22) Limit B; Radiated Immunity to IEC 801-3 Level 3 10 V/m; Burst
LINO		Transients to IEC 801-4 Level 3 (2kV); Electrostatic Discharge to IEC 801-2 Level 2 (4kV contact);
		Surges to IEC 801-5 class 3 (2kV).
Insulatio	n Resistance	500 MOhm at 50 VDC
moulutio		

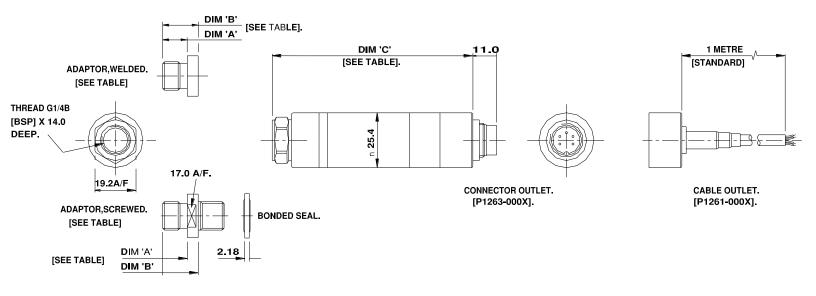
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# DIMENSIONS



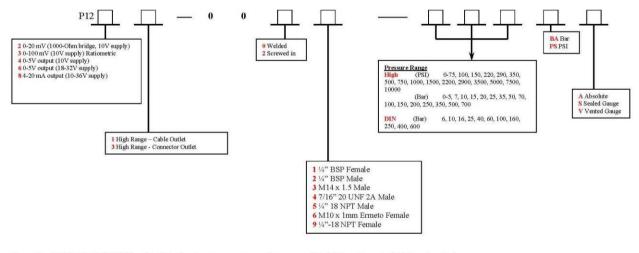
Adapters							
Thread Size	Code Welded	Α	В	Code Screw In	В		
G1/4A (BSP) (F)	0001						
G1/4A (BSP) (M)	0002	0.46 (11.7)	0.67 (16.9)	0022	0.70 (17.8)		
M14 x 1.5 (M)	0003	0.40 (10.2)	0.61 (15.4)	0023	0.62 (15.8)		
7/16"-20UNF-2A (M)	0004	0.56 (14.3)	0.77 (19.5)	0024	0.78 (19.8)		
1/4"-18NPT (M)	0005	0.67 (17.0)	0.87 (22.2)	0025	0.92 (23.4)		
M10 x 1.0 (F)	0006		0.60 (15.2)	0026	0.61 (15.4)		
1/4"-18NPT (F)	0009						

	Dimension C		
	0 to 5 - 50 bar	0 to 70 -700 bar	
P1221/3-00XX	65.0	66.5	
P1231/3-00XX	79.0	80.5	
P1241/3-00XX	79.0	80.5	
P1261/3-00XX	93.4	95.0	
P1281/3-00XX	79.0	80.5	

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## **ORDERING INFORMATION**



Example: P1283-0023-10KPSS = 4 to 20mA output, connector outlet, screwed in M14 male port, 10,000 psi sealed gauge

#### TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

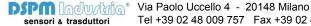
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