PT250/PT251 **Pressure Transmitters**

Description

The PT250/PT251 series of pressure transmitters incorporate a stainless steel isolation diaphragm and all welded construction to withstand harsh industrial environments. Pressure ranges from 6 to 400 BAR or 100 to 5,000 PSI can be measured using a supply voltage of 9-32V. The transmitter provides a 4-20mA output proportional to applied pressure. The P250 is specified with pressure ranges measured in BAR while the PT251 pressure ranges are measured in PSI.

The rugged construction of the PT250 allows it to be used safely in environments with large over-pressure spikes. The 304L stainless steel diaphragm is compatible with most industrial fluids and gaseous media.

Features

- Welded Stainless Steel Construction
- Absolute or Sealed Gage References
- Packard, M12, 18mm & 9.4mm DIN **Electrical Connectors**
- 4–20 mA Output
- High Vibration Tolerance
- Superior EMI/RFI Rejection
- M10, M12, & M14 Pressure Ports
- Temperature Compensated

Applications

- Pumps & Compressors
- Process Controls
- HVAC & VAV
- Refrigerant Control & Recovery
- Water Management
- Autoclaves
- Hydraulic Systems
- Test & Monitoring Equipment



RoHS

Standard Full Scale Pressure Ranges

6, 10, 16, 25, 40, 50, 100, 250, and 400 BAR (PT250)

100, 150, 200, 300, 500, 1,500, 3,000, 4,000, and 5,000 PSI (PT251)

Absolute or Sealed Gage

Technical Specifications Note: Performance Specifications with 15 Vdc supply at 25°C

Pressure Ranges:

Proof Pressure: Burst Pressure:

Supply Voltage: Current Output Span: Load Resistance: **Linearity Error** Hysteresis and Repeatibility:

CE

0-100 through 0-5,000 PSI 0-6 through 0-400 BAR Absolute or Sealed Gage 2X 250 BAR - (up to 50 BAR) 1.000 BAR - (above 50 BAR) 9-32 Vdc 4-20 mA (Vs-9Vdc)/20mA +0.5%

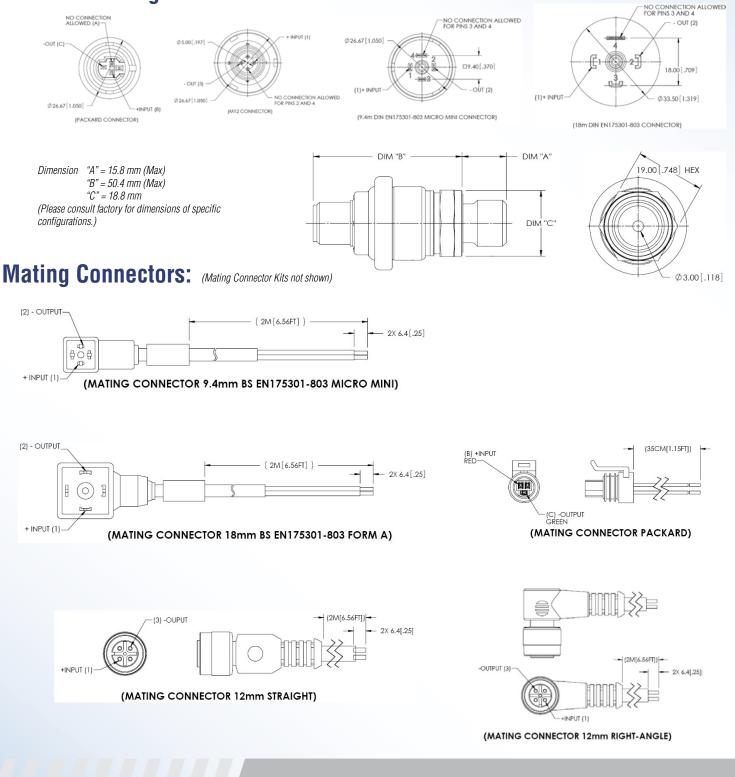
Total Error Band: **Response Time: Operating Temperature:** Storage Temperature: Service Life: Vibration: Shock: Housing Material: **Electrical Connector:** Pressure Connection: Reverse Polarity Protection: 32 V Maximum Voltage:

±2% of Span (-15°C to +85°C) < 2ms -15°C to +85°C -40°C to +100°C 1 Million Full Pressure Cycles 10G Sinusoidal from 10-2000 Hz 75G Sine Wave 304L Stainless Steel See "How to order" See "How to Order" 36 V

Contact us via Website: www.gemsr.com, Tel: +86.13824390543



Outline Drawings



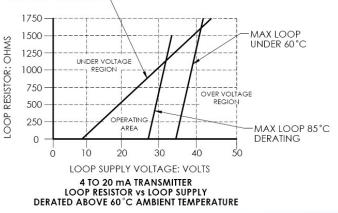
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PT250/PT251 Pressure Transmitters

How to Order

PT250 Pr	es <u>su</u>	re <u>T</u> ı	rans	mitte	r <u>PT251</u>	Pressure Transmitter
Pressure Ranges						
6 10 25 40 50 100 250 400		- 6 E - 10 - 25 - 40 - 50 - 10(- 25(- 40(BAR BAR BAR BAR BAR) BA	R	100 150 200 300 500 1500 3000 4000 5000	0 - 100 PSI 0 - 150 PSI 0 - 200 PSI 0 - 300 PSI 0 - 500 PSI 0 - 1,500 PSI 0 - 3,000 PSI 0 - 4,000 PSI 0 - 5,000 PSI
	Re A S	ference Absolute Sealed Gage				
	External Seal/Washer Material (Supplied for Straight Threads B Nitrile Butadiene (NBR) (for Port 3 Option Only) D Fluorocarbon (FPM) (for Port 3 Option Only) G Aluminum Washer (Pressure Ports 6,7,8 and 9) X None					
	Pressure Connection (Port)1Stud End 1/4-18 NPT2Port 7/16-20 UNF-2A with Schrader Deflator (1/4" SAE Female Flare)3Stud End 7/16-20 UNF-2A, (SAE J1926-2)4Stud End 1/8-27 NPT5Port G1/46Stud End G1/47Stud End M10x18Stud End M12x1.59Stud End M14x1.510Port M10x1.25 with Schrader Deflator11Stud End R1/4					PT 2A with Schrader Deflator Flare) JNF-2A, (SAE J1926-2) PT
	Built-in Electrical ConnectorAPackard Connector with Mating Connear and 35cm LeadsCPackard ConnectorDM12 with Mating Connector, Straight ArEM12 with Mating Connector, Right ArFM12 Connector Kit Right Angle (without GGM12 Connector Kit Straight (without VHM12 (without Mating Connector)J9.4mm, DIN EN 175301-803 Micro-mir(with Mating Connector)K9.4mm, DIN EN 175301-803 Micro-mir18mm, DIN EN 175301-803 (with MatingM18mm, DIN EN 175301-803 (w/o Mating				nector with Mating Connector ads nector ting Connector,Straight ting Connector, Right Angle tor Kit Right Angle (without Wire) tor Kit Straight (without Wire) Mating Connector) N 175301-803 Micro-mini Connector) N 175301-803 (with Mating Connector)	
PT250 25	5 A	X	1	Α		

MIN LOOP VOLTAGE-



Example: PT250-25A-X1A