

PT250/PT251 Pressure Transmitters



Typical Applications

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

Standard Full Scale Pressure Ranges

Low Pressure:

PT250: 0-6, 0-7, 0-10, 0-16, 0-25, 0-30,
0-40 and 0-50 Bar

PT251: 0-100, 0-150, 0-200, 0-300, 0-500
and 0-600 PSI

High Pressure:

PT250: 0-100, 0-250 and 0-400 Bar

PT251: 0-1,500, 0-3,000, 0-4,000 and 0-5,000 PSI

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

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 9-32 V. The transmitter provides a 4-20 mA output proportional to applied pressure. The PT250 is specified with pressure ranges measures 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.

Technical Specifications

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

Pressure Ranges:	0 - 6 through 0 - 400 Bar 0 - 100 through 0 - 5,000 PSI Absolute or Sealed Gage
Proof Pressure:	2x
Burst Pressure:	250 Bar - (up to 50 Bar) 1,000 Bar - (above 50 Bar)
Supply Voltage:	9 - 32 Vdc*
Current Output Span:	4 - 20 mA
Load Resistance:	(Vs - 9Vdc) /20 mA
Linearity Error	
Hysteresis and Repeatability:	±0.5%
Total Error Band:	±2% Full Scale Output (-15°C to +85°C)
Response Time:	< 2ms
Operating Temperature:	-15°C to 125°C*
Storage Temperature:	-40°C to 125°C
Service Life:	1 Million Full Pressure Cycles
Vibration:	10G Sinusoidal from 10 - 2000 Hz
Shock:	75G Sine Wave
Housing Material:	304L Stainless Steel
Electrical Connector:	See "How to Order"
Pressure Connection:	See "How to Order"
Reverse Polarity Protection:	32 V
Maximum Voltage:	36 V

*Supply Voltage is derated for T > 85°C



Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non-compliance can result in serious injury and/or damage to the equipment.

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Don't see what you want?

Call us at +1 (619) 710-2068 to customize this product to meet your application-specific needs!

How to Order

PT250		PT251	
Pressure Range		Pressure Range	
6	0 - 6 Bar	100	0 - 100 PSI
7	0 - 7 Bar	150	0 - 150 PSI
10	0 - 10 Bar	200	0 - 200 PSI
16	0 - 16 Bar	250	0 - 250 PSI
25	0 - 25 Bar	300	0 - 300 PSI
30	0 - 30 Bar	500	0 - 500 PSI
40	0 - 40 Bar	600	0 - 600 PSI
50	0 - 50 Bar	1500	0 - 1500 PSI
100	0 - 100 Bar	3000	0 - 3000 PSI
250	0 - 250 Bar	4000	0 - 4000 PSI
400	0 - 400 Bar	5000	0 - 5000 PSI
Reference			
A	Absolute		
S	Gage		
External Seal/Washer Material (Supplied for Straight Threads Only)			
B	Nitrile Butadiene (NBR) (for any port 3 option and port 6, 7, 8 and 9 high pressure options)		
D	Fluorocarbon (FPM) (for any port 3 option and port 6, 7, 8 and 9 high pressure options)		
G	Aluminum Washer (for any port 6, 7, 8 and 9 low pressure options)		
X	None (for any port 1, 2, 4, 5, 10 and 11 option)		
Pressure Connection (Port)			
1	Stud End 1/4 - 18 NPT		
2	Port 7/16 - 20 UNF-2B with Schrader Deflator (1/4" SAE Female Flare)		
3	Stud End 7/16 - 20 UNF-2A (SAE J1926-2)		
4	Stud End 1/8 - 27 NPT		
5	Port G 1/4		
6	Stud End G 1/4		
7	Stud End M10x1		
8	Stud End M12x1.5		
9	Stud End M14x1.5		
10	Port M10x1.25 with Schrader Deflator		
11	Stud End R 1/4 (1/4-19 BSPT)		
Built-in Electrical Connector			
A	Packard Connector with Mating Connector and 35cm Leads		
C	Packard Connector		
D	M12 with Mating Connector, Straight		
E	M12 with Mating Connector, Right Angle		
F	M12 Connector Kit, Right Angle, without Wires		
G	M12 Connector Kit, Straight, without Wires		
H	M12 without Mating Connector		
J	9.4mm, DIN EN 175301-803 Micro-mini with Mating Connector		
K	9.4mm, DIN EN 175301-803 Micro-mini		
L	18mm, DIN EN 175301-803 with Mating Connector		
M	18mm, DIN EN 175301-803 without Mating Connector		

PT250-25-A-X-1-A

Example: PT250-25-A-X-1-A

Description: PT250 Pressure Sensor, 50 BarA (Absolute),

1/4 - 18 NPT Pressure Port, Packard Connector with Mating Connector

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