



## Series 150 Pressure Transmitter

The PTR150 is a compact & robust transmitter, providing pressure measurement in the range of 1 to 200 bar. All ranges are available in gauge or absolute format to suit customer requirements. An all laser welded stainless steel construction ensures media isolation. The product is designed to meet the tough environmental conditions experienced by modern day applications.



### Key Features

- Compact and rugged construction
- Cost effective
- 1% total error band (-40°C to 105°C)
- High immunity to EMC: 100V/m
- 5V supply: 0.5 to 4.5V ratiometric output
- 8 to 30V supply: 4-20mA or 1 to 5V output
- Packard, M12 or Mini DIN connectors

### Operating Specifications

Output Type		0.5 to 4.5V	4-20mA	1 - 5V
Non-linearity, Hysteresis & Repeatability	5 bar - 200 bar < 5 bar		V0.5% FS <1.00% FS	
Thermal Error	5 bar - 200 bar < 5 bar		V0.5% FS <1.00% FS	
Stability			<0.25% / Year	
Operating Temperature			-40°C to +105°C	
Proof Pressure			3 x FS	
Burst Pressure (absolute)			Lesser of 10 x FS or 100 bar	
Burst Pressure (gauge)			5 x FS	

Wetted Materials	304L & 316L SS, AL <sub>2</sub> O <sub>3</sub>
Pressure/Temperature Cycles	>1.8*10 <sup>6</sup> Cycles (0 to FS at 8HZ; -40°C to + 105°C)
Thermal Shock	250 Cycles (105°C to -40°C, 0.5hr soaks at temp)
Vibration	144 hours (10 to 50Hz, 0g sinusoidal, 3 axes)
EMC Compatibility	100 V/m (80MHz to 1 GHz)
Humidity	250 hours (85°C and 90% to 95% RH)
Weight	<100g

Output Type	0.5 to 4.5V	4-20mA	1 - 5V
Supply Voltage	5 ± 0.5V	8 to 30V	8 to 30V
Supply Current	<5mA	N/A	<5mA
Output current	0.45mA Max (Sink of Source)	N/A	0.45mA Max (Sink of Source)
Response Time	<1mS	<1mS	<1mS
Reverse Polarity Protection	N/A	Yes	Yes

### How to Order

(Example: Part Number PTR150G/T41/20B/MD/MA/300psi)

**PTR150G / T41 / 20B / MD / MA / <sup>Set</sup>Range**

#### Pressure Datum

<b>G</b>	Gauge
<b>A</b>	Absolute
<b>S</b>	Sealed

#### Process Connection

<b>T40</b>	1/4" NPT (female)
<b>T41</b>	1/4" NPT (male)
<b>T42</b>	1/4" BSP (male)

Range	10B	10bar
<b>0.1B</b>	0.1 bar	<b>20B</b> 20bar
<b>0.4B</b>	0.4 bar	<b>50B</b> 50 bar
<b>1B</b>	1 bar	<b>100B</b> 100 bar
<b>2B</b>	2 bar	<b>200B</b> 200 bar
<b>3B</b>	3 bar	<b>400B</b> 400 bar
<b>5B</b>	5 bar	<b>500B</b> 500 bar

#### Electrical Connection

<b>P</b>	Packard Metripak
<b>MD</b>	DIN40050
<b>M12</b>	4 pin
<b>16</b>	150mm Integral Harness
<b>122</b>	300mm Integral Harness
<b>175</b>	1800mm Integral Harness

#### Output Type

<b>45</b>	0.5-4.5V (5V Excitation)
<b>5V</b>	1.5V (8 to 30V Excitation)
<b>mA</b>	4-20mA (8 to 30V Excitation)

\* Other process connections available

### Wiring Diagram

