



Series 150 Pressure Transmitter

The PTR150 is a compact & robust transmitter, providing pressure measurement in the range of 1 to 500 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 ₂ O ₃
Pressure/Temperature Cycles	>1.8*10 ⁶ 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 / ^{Set}Range

Pressure Datum

G	Gauge
A	Absolute
S	Sealed

Process Connection

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

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

Electrical Connection

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

Output Type

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

* Other process connections available

Wiring Diagram

