

PT1000 Series Pressure Transmitters

The PT1000 series pressure transmitter offers excellent performance at an OEM price. The transmitter features a ceramic measuring cell that is well suited for general purpose pressure measurement applications. Features like a compact stainless steel housing, integral M12 connector, flexible process connections, and multiple pressure ranges ensure the product will fit the application.

- Ceramic measuring elements
- 316 stainless steel housing with Polyarylamide 50% GF electrical connector
- NPT, G (BSPP), and SAE-ORB process connections
- Gel filled housing
- Ranges up to 60 Bar



Performance Data

Over Pressure	≤ 4 bar = 3X full scale > 4 bar = 2.5X full scale
Burst Pressure	≤ 4 bar = 3X full scale > 4 bar = 2.5X full scale
Analog Accuracy LHR	± 0.30% full scale
Temperature Coefficient Zero Point	± 0.20% of measuring range per 10 °C
Temperature Coefficient Span	± 0.20% of measuring range per 10 °C

Electrical Data

Operating Voltage (I2 & U3)	7 - 33 VDC
Operating Voltage (U1)	12 - 33 VDC
Operating Voltage (U2)	8 - 33 VDC
Operating Voltage (U6)	5 VDC regulated
Current Consumption (I2)	≤ 23 mA
Current Consumption (U1, U2, U3, U6)	≤ 7 mA
Analog Load (I2)	≤ supply voltage - 7 V / 0.02 A = Ω
Analog Load (U1, U2, U3, U6)	> 10 K Ω
Response Time	< 2 ms
Short Circuit/Reverse Polarity Protection	Yes/Yes

Environmental Data

Ambient Temperature	-30 to 85 °C
Storage Temperature	-50 to 100 °C
Medium Temperature	-40 to 125 °C
Housing Materials	316 stainless steel/Polyarylamide 50% GF
Wetted Materials	316 stainless steel, FPM, AL ₂ O ₃ , ceramic
Protection Type	IP 67
Shock Resistance	40 g for 6 ms, 1000x all 3 directions per IEC 68-2-29
Vibration Resistance	20 g, 15 - 2000 Hz, 15 - 25 Hz with amplitude μ 15 mm, 1 Octave/min. all 3 directions, 50 constant load per IEC 68-2-6

Part Number Key

PT 010R - 10 01 - I2 - H1141

Pressure Transmitter

Pressure Range and Scale

Absolute Range

- 1A = 0 to 1 BarA (0 to 14.5 PSIA)
- 2A = 0 to 1.6 BarA (0 to 23.2 PSIA)
- 3A = 0 to 2.5 BarA (0 to 36.25 PSIA)
- 4A = 0 to 4 BarA (0 to 58 PSIA)
- 6A = 0 to 6 BarA (0 to 87 PSIA)
- 10A = 0 to 10 BarA (0 to 145 PSIA)

Compound Range

- 0.2V = -0.2 to 0.2 Bar (-2.9 to 2.9 PSIG)
- 1V = -1 to 1 Bar (-14.5 to 14.5 PSIG)
- 1.5V = -1 to 1.5 Bar (-14.5 to 21.75 PSIG)
- 2.5V = -1 to 2.5 Bar (-14.5 to 36.25 PSIG)
- 5V = -1 to 5 Bar (-14.5 to 72.5 PSIG)
- 9V = -1 to 9 Bar (-14.5 to 130.5 PSIG)
- 15V = -1 to 15 Bar (-14.5 to 217.5 PSIG)
- 24V = -1 to 24 Bar (-14.5 to 348 PSIG)
- 40V = -1 to 40 Bar (-14.5 to 580 PSIG)
- 15PSIV = -15 to 15 PSIG
- 45PSIV = -15 to 45 PSIG
- 85PSIV = -15 to 85 PSIG
- 130PSIV = -15 to 130 PSIG
- 185PSIV = -15 to 185 PSIG
- 285PSIV = -15 to 285 PSIG
- 485PSIV = -15 to 485 PSIG

Series

10 = Ceramic measuring cell

Process Connection

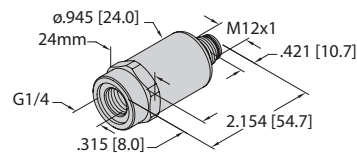
- 01 = Female G 1/4
- 03 = Male NPT 1/4
- 04 = Male G 1/4
- 05 = Male 7/16 - 20 UNF (SAE-ORB)
- 14 = Male NPT 1/8
- 17 = Female NPT 1/2

Relative Ranges

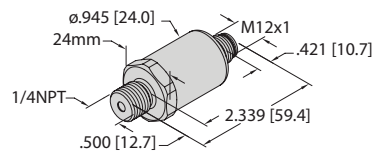
- 1VR = -1 to 0 Bar (-14.5 to 0 PSIG)
- 0.25R = 0 to 0.25 Bar (0 to 3.63 PSIG)
- 1R = 0 to 1 Bar (0 to 14.5 PSIG)
- 2R = 0 to 1.6 Bar (0 to 23.2 PSIG)
- 3R = 0 to 2.5 Bar (0 to 36.35 PSIG)
- 4R = 0 to 4 Bar (0 to 58 PSIG)
- 6R = 0 to 6 Bar (0 to 87 PSIG)
- 10R = 0 to 10 Bar (0 to 145 PSIG)
- 16R = 0 to 16 Bar (0 to 232 PSIG)
- 25R = 0 to 25 Bar (0 to 362.5 PSIG)
- 40R = 0 to 40 Bar (0 to 580 PSIG)
- 60R = 0 to 60 Bar (0 to 870 PSIG)
- 15PSIG = 0 to 15 PSIG
- 20PSIG = 0 to 20 PSIG
- 30PSIG = 0 to 30 PSIG
- 60PSIG = 0 to 60 PSIG
- 100PSIG = 0 to 100 PSIG
- 150PSIG = 0 to 150 PSIG
- 200PSIG = 0 to 200 PSIG
- 300PSIG = 0 to 300 PSIG
- 500PSIG = 0 to 500 PSIG
- 750PSIG = 0 to 750 PSIG

*other ranges available upon request

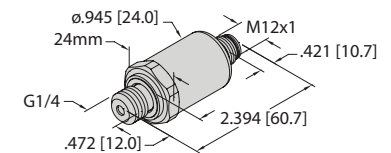
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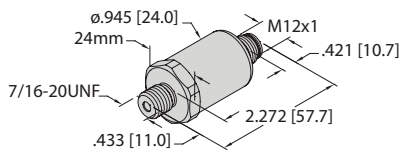
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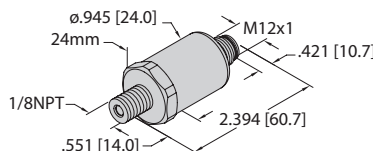
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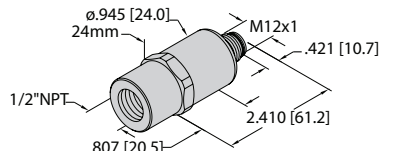
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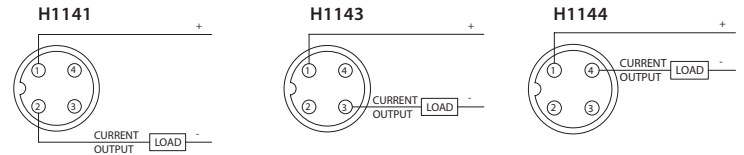


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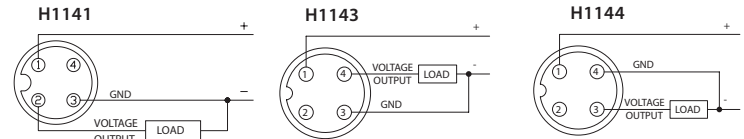


Electrical Connection

Current Output 2-wire



Voltage Output 3-wire



Mating Cordset: RK 4.4T-* / S618

Electrical Output

- I2 = 4 - 20 mA (2-wire)
- U1 = 0 - 10 VDC (3-wire)
- U2 = 1 - 6 VDC (3-wire)
- U3 = 0 - 5 VDC (3-wire)
- U6 = 0.5 - 4.5% (3-wire) [ratiometric]