

PT1 Series Pressure Transmitters

The PT1 pressure transmitter is a general purpose product with a ceramic measuring cell and is ideal for pneumatic applications. The rugged stainless steel housing ensures performance in demanding applications.

- Stainless steel housing
- NPT and G (BSPP) process connections
- 4 - 20 mA, 0 - 10 V
- Ranges up to 600 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 |
| Zero / Span Shift | ≤ 0.30% full scale |
| Temperature Coefficient Zero Point | ≤ 0.15% of measuring range per 10 °C |
| Temperature Coefficient Span | ≤ 0.15% of measuring range per 10 °C |

Electrical Data

| | |
|---|---------------|
| Operating Voltage (LI3) | 8 - 33 VDC |
| Operating Voltage (LU2) | 11.4 - 33 VDC |
| Current Consumption | ≤ 20 mA |
| Analog Load (LI3) | ≤ 1 K Ω |
| Analog Load (LU2) | > 10 K Ω |
| Response Time | < 2 ms |
| Short Circuit / Reverse Polarity Protection | Yes / Yes |

Environmental Data

| | |
|----------------------|---|
| Ambient Temperature | -40 to 85 °C |
| Storage Temperature | -40 to 85 °C |
| Medium Temperature | -40 to 125 °C |
| Housing Materials | 303 stainless steel |
| Wetted Materials | 303 stainless steel, FPM, PPS, AL ₂ O ₃ ceramic |
| Protection Type | IP 67 |
| Shock Resistance | 75 g, 11 ms per IEC 68-2-27 |
| Vibration Resistance | 20 g, 15 mm per IEC 68-2-6 |

Part Number Key

PT 010R - 1 1 - LI3 - H1131

Pressure Transmitter

Pressure Range and Scale

Absolute Range

- 001A = 0 to 1 BarA (0 to 14.5 PSIA)
- 002A = 0 to 1.6 BarA (0 to 23.2 PSIA)
- 003A = 0 to 3 BarA (0 to 43.5 PSIA)

Relative Ranges

- 01VR = -1 to 0 Bar (-14.5 to 0 PSIG)
- 0.5R = 0 to 0.5 Bar (0 to 7.25 PSIG)
- 001R = 0 to 1 Bar (0 to 14.5 PSIG)
- 002R = 0 to 1.6 Bar (0 to 23.2 PSIG)
- 003R = 0 to 2.5 Bar (0 to 36.25 PSIG)
- 004R = 0 to 4 Bar (0 to 58 PSIG)
- 006R = 0 to 6 Bar (0 to 87 PSIG)
- 010R = 0 to 10 Bar (0 to 145 PSIG)
- 016R = 0 to 16 Bar (0 to 232 PSIG)
- 025R = 0 to 25 Bar (0 to 362.5 PSIG)
- 040R = 0 to 40 Bar (0 to 580 PSIG)
- 060R = 0 to 60 Bar (0 to 870 PSIG)
- 100R = 0 to 100 Bar (0 to 1450 PSIG)
- 160R = 0 to 160 Bar (0 to 2320 PSIG)
- 250R = 0 to 250 Bar (0 to 3625 PSIG)
- 400R = 0 to 400 Bar (0 to 5800 PSIG)
- 600R = 0 to 600 Bar (0 to 8700 PSIG)
- 30HG = -30 to 0 in HG
- 15PSIG = 0 to 15 PSIG
- 30PSIG = 0 to 30 PSIG
- 60PSIG = 0 to 60 PSIG
- 100PSIG = 0 to 100 PSIG
- 200PSIG = 0 to 200 PSIG
- 300PSIG = 0 to 300 PSIG
- 500PSIG = 0 to 500 PSIG
- 750PSIG = 0 to 750 PSIG
- 1000PSIG = 0 to 1000 PSIG
- 2000PSIG = 0 to 2000 PSIG
- 3000PSIG = 0 to 3000 PSIG
- 5000PSIG = 0 to 5000 PSIG
- 7500PSIG = 0 to 7500 PSIG

Series

1 = PT1

Process Connection

- 1 = Female G 1/4
- 3 = Male NPT 1/4

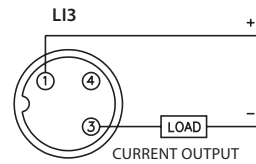
Electrical Connection

H1131 = 3-pin, M12

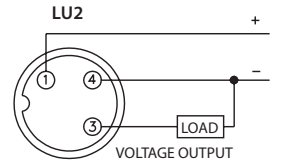
Electrical Output

OUTPUT: LOAD

- LI3 = 4 - 20 mA
- LU2 = 0 - 10 VDC

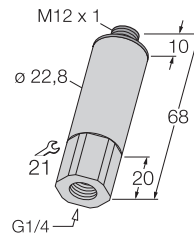


Mating Cordset: RK 4T-* / S618



Mating Cordset: RK 4T-* / S618

PT...11



PT...13

