

# 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

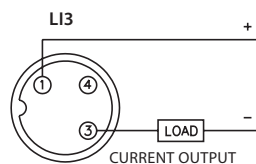
Operating Voltage (LI3)	8 - 33 VDC
Operating Voltage (LU2)	11.4 - 33 VDC
Current Consumption	≤ 20 mA
Analog Load (LI3)	≤ 1 K Ω
Analog Load (LU2)	> 10 K Ω
Response Time	< 2 ms
Short Circuit / Reverse Polarity Protection	Yes / Yes

## Environmental Data

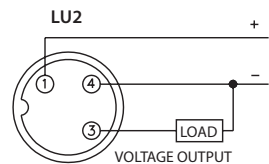
Ambient Temperature	-40 to 85 °C
Storage Temperature	-40 to 85 °C
Medium Temperature	-40 to 125 °C
Housing Materials	303 stainless steel
Wetted Materials	303 stainless steel, FPM, PPS, AL <sub>2</sub> O <sub>3</sub> ceramic
Protection Type	IP 67
Shock Resistance	75 g, 11 ms per IEC 68-2-27
Vibration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

## Part Number Key

<b>Pressure Transmitter</b>	<b>PT</b>	<b>010R</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>LI3</b>	<b>-</b>	<b>H1131</b>	<b>Electrical Connection</b>
<b>Pressure Range and Scale</b>										<b>H1131 = 3-pin, M12</b>
<b>Absolute Range</b>										<b>Electrical Output</b>
<b>001A = 0 to 1 BarA (0 to 14.5 PSIA)</b> <b>002A = 0 to 1.6 BarA (0 to 23.2 PSIA)</b> <b>003A = 0 to 3 BarA (0 to 43.5 PSIA)</b>										<b>OUTPUT: <span style="border: 1px solid black; padding: 0 2px;">LOAD</span></b> <b>LI3 = 4 - 20 mA</b> <b>LU2 = 0 - 10 VDC</b>
<b>Relative Ranges</b>										
<b>01VR = -1 to 0 Bar (-14.5 to 0 PSIG)</b> <b>0.5R = 0 to 0.5 Bar (0 to 7.25 PSIG)</b> <b>001R = 0 to 1 Bar (0 to 14.5 PSIG)</b> <b>002R = 0 to 1.6 Bar (0 to 23.2 PSIG)</b> <b>003R = 0 to 2.5 Bar (0 to 36.25 PSIG)</b> <b>004R = 0 to 4 Bar (0 to 58 PSIG)</b> <b>006R = 0 to 6 Bar (0 to 87 PSIG)</b> <b>010R = 0 to 10 Bar (0 to 145 PSIG)</b> <b>016R = 0 to 16 Bar (0 to 232 PSIG)</b> <b>025R = 0 to 25 Bar (0 to 362.5 PSIG)</b> <b>040R = 0 to 40 Bar (0 to 580 PSIG)</b> <b>060R = 0 to 60 Bar (0 to 870 PSIG)</b> <b>100R = 0 to 100 Bar (0 to 1450 PSIG)</b> <b>160R = 0 to 160 Bar (0 to 2320 PSIG)</b> <b>250R = 0 to 250 Bar (0 to 3625 PSIG)</b> <b>400R = 0 to 400 Bar (0 to 5800 PSIG)</b> <b>600R = 0 to 600 Bar (0 to 8700 PSIG)</b>										
<b>-30HG = -30 to 0 in HG</b> <b>15PSIG = 0 to 15 PSIG</b> <b>30PSIG = 0 to 30 PSIG</b> <b>60PSIG = 0 to 60 PSIG</b> <b>100PSIG = 0 to 100 PSIG</b> <b>200PSIG = 0 to 200 PSIG</b> <b>300PSIG = 0 to 300 PSIG</b> <b>500PSIG = 0 to 500 PSIG</b> <b>750PSIG = 0 to 750 PSIG</b> <b>1000PSIG = 0 to 1000 PSIG</b> <b>2000PSIG = 0 to 2000 PSIG</b> <b>3000PSIG = 0 to 3000 PSIG</b> <b>5000PSIG = 0 to 5000 PSIG</b> <b>7500PSIG = 0 to 7500 PSIG</b>										
<b>Series</b>										
<b>1 = PT1</b>										
<b>Process Connection</b>										
<b>1 = Female G 1/4</b> <b>3 = Male NPT 1/4</b>										

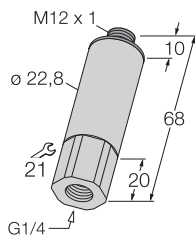


Mating Cordset: RK 4T-\* / S618



Mating Cordset: RK 4T-\* / S618

PT...11



PT...13

