

SPECIFICATIONS

JTL Part No	Range
PT08BA-I-G	-1 to 7 bar
PT1-I-G	0 to 100 psi
PT2-I-G	0 to 200 psi
PT25B-I-G	0 to 25 bar
PT3-I-G	0 to 300 psi
PT35BA-I-G	-1 to 34 bar
PT5-I-G	0 to 500 psi
PT60B-I-G	0-60 bar

Overload

w/o damage:	4 x range
w/o burst:	
20 x range	≤ 40 bar (600 psi)
5 x range	≤ 400 bar (6000 psi)

Span

16 \pm 0.16 mA at 25°C
signal output: 4-20 mA

Null Offset

4 \pm 0.16 mA at 25°C

Excitation (Vs)

7 to 35 Vdc (reverse polarity protection, above 100°C supply limited to 24 Vdc)

Maximum Load Resistance

(Vs-7) x 50 ohm

Accuracy

\pm 0.5% span from best fit straight line including effects of non-linearity, hysteresis and repeatability.

Operating Temperature Range

-40°C to +125°C

Compensated Temperature Range

-20°C to +80°C

Media Compatibility

The wetted parts are 17-4 PH stainless steel.

Type

Gems 1200 series

GENERAL

The Model PTn-I-G pressure transducer is a high-gain strain gauge device with an amplified 4-20 mA Vdc output. It is fully compensated and calibrated. All Model PTn-I-G units measure gauge pressure and have circuitry vented to the atmosphere.

WIRING

Connections are made as shown on the outline drawing. Recommended wire size is 0.5 mm². PTn-I-G's are made with 4 connection pins. There is no reverse polarity protection: miswiring could damage the transducer.

MECHANICAL INSTALLATION

Omni-directional, self supported directly on to the pipework. Use a 19mm AF (¾") spanner on the hexagon provided to apply a maximum torque of 15.8 Nm.

PRECAUTIONS

The case of the Model PTn-I-G should never be used to apply torque to make or break the pressure connection. Always use a wrench on the hex directly behind the threaded port.

Do not subject the transducer to high temperature as a result of soldering, brazing or welding of the system plumbing. In high humidity environments where condensation may occur, mount the transducer so that the connector attaches from the bottom or side. This prevents creation of a moisture trap.

PRESSURE OVERLOADS

If the overload rating is exceeded, electrical failure may occur. Pressure fluctuations exist in most systems. The transducer rating should be high enough to prevent overload by the peak pressure, or a snubber can be used to reduce the peak pressure applied to the transducer. The life of the PTn-I-G may be reduced if it is repeatedly overloaded.

ENVIRONMENTAL PROTECTION

IP65

Care should be taken if the transducer is to be used in atmospheres of high humidity, spray or driving dust. In such cases, a protective enclosure is recommended.

