

PRESSURE TRANSMITTER

PTX 130G3 & G4

- Measuring Range (50 to 2000) mbar
- Oil Filled Isolated Silicon Sensor
- 2 wire (4 to 20) mA or Voltage Output
- <0.25% FS Accuracy
- Choice Of Process Connections

INTRODUCTION

The PTX130G3 and G4 has an oil filled isolated silicon sensor giving it excellent media compatibility and accuracy. Constructed of stainless steel, it is available with a wide variety of process connections, and every device is temperature compensated. The electronics are microprocessor based which means no manual adjustment is needed. The product can be ordered with current or voltage output and has excellent temperature stability.

SPECIFICATION @ 20 °C

Type Gauge

Pressure Range (0 to 1000) mbar

| Nominal Pressure (mbar) | Permissible Overpressure (mbar) |
|-------------------------|---------------------------------|
| 50 | 400 |
| 60 | 400 |
| 100 | 400 |
| 160 | 400 |
| 250 | 700 |
| 400 | 1400 |
| 600 | 1400 |
| 1000 | 2000 |

Accuracy (non-linearity & hysteresis)

≤ ±0.25 % / Full Scale

Option

≤ ±0.1 % / Full Scale

Setting Errors (offsets)

Zero & Full Scale ≤ ±0.5 % / Full Scale

Thermal Zero Shift

≤ ±0.04 % / Full Scale / °C

Option

≤ ±0.02 % / Full Scale / °C

Thermal Span Shift

≤ -0.015 % / °C

Media Temperature (-40 to 120) °C
(150 °C with integrated cooling element)

Ambient Temperature (-20 to 80) °C

Storage Temperature (-40 to 120) °C

Compensated Temperature Range
(20 to 80) °C

Output (4 to 20) mA two wire
Options (See order codes)

Supply Voltage (9 to 32) V DC
(See order code for optional outputs supplies)

Supply Voltage Influence Typically <0.05 % FS

Load Resistance
2-wire $R_{max} = \frac{(V_{supply} - V_{supply\ min})}{0.02}$

3-wire $R_{min} = 10\ k\Omega$

Load Influence 0.05 % FSO / kΩ

Material
Diaphragm, Stainless Steel 316L
Housing Stainless Steel 303
O Rings Viton

Process Connections
Options G¼" male
(See order codes)

Mechanical Stability
Shock 100 g / 11 ms
Vibration 10 g RMS (20 to 2000) Hz

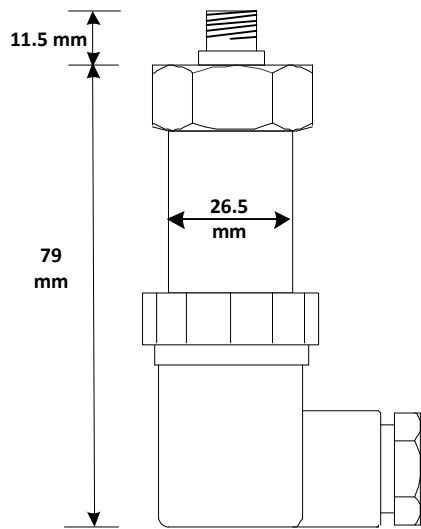


PRESSURE TRANSMITTER

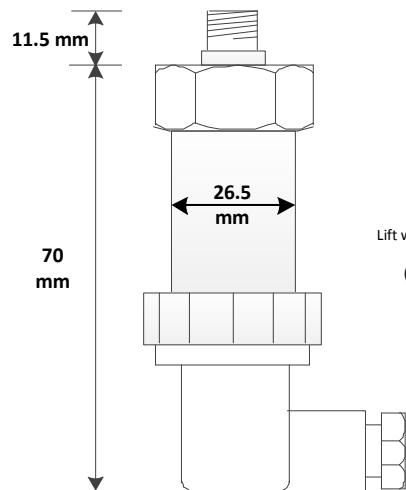
Wiring Designation

| | | Large Plug & Socket | Small Plug & Socket | IP66 Cable | AMP 6-Pin Bayonet | IP68 Vented cable | Binder 6-Pin Connector | M12x1 4 Pin Connector |
|--------|---|--------------------------------------|--------------------------------------|--------------------------------|--------------------------------------|--------------------------------|----------------------------------|----------------------------------|
| 2-Wire | +ve Supply -ve Supply Ground | Pin 1 Pin 2 Earth Pin | Pin 1 Pin 2 Earth Pin | Red Blue Green | Pin 1 Pin 2 Earth Pin | Red Blue White | Pin 1 Pin 2 Pin 3 | Pin 1 Pin 2 Pin 3 |
| 3-Wire | +ve Supply -ve Supply +ve Output Ground | Pin 1 Pin 2 Pin 3 Earth Pin | Pin 1 Pin 2 Pin 3 Earth Pin | Red Blue Green Yellow | Pin 1 Pin 2 Pin 3 Earth Pin | Red Blue White Yellow | Pin 1 Pin 2 Pin 3 Pin 4 | Pin 1 Pin 2 Pin 3 Pin 4 |

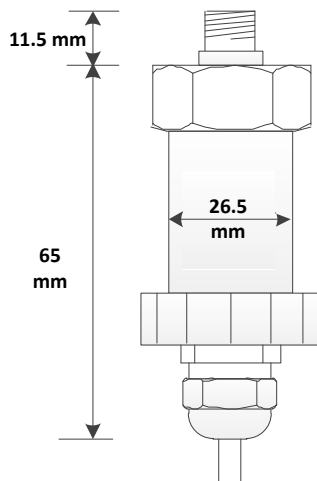
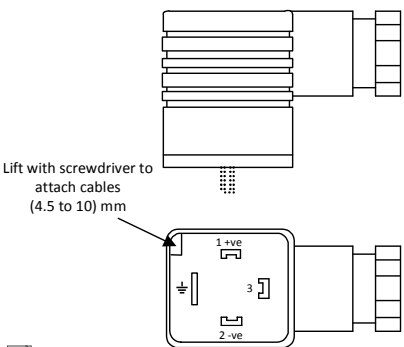
MECHANICAL



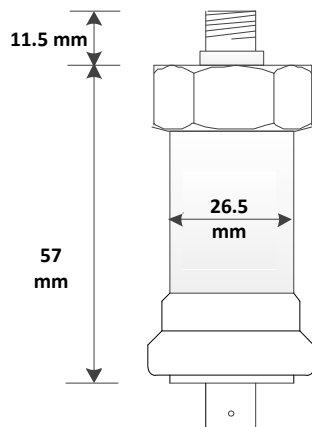
Large Plug & Socket



Small Plug & Socket



Cable Gland Assembly



Amphenol Connector

PRESSURE TRANSMITTER

ORDER CODE

| | | | | | | | | |
|--|---|----|--|--|--|--|--|--|
| PTX130 | | | | | | | | |
| Pressure Type: Gauge | G | | | | | | | |
| Pressure Range: | | | | | | | | |
| >100 mbar to 2000 mbar | 3 | | | | | | | |
| <100 mbar (min 50 mbar) | 4 | | | | | | | |
| Output: (4 to 20) mA 2-Wire | Supply Voltage Variations | | | | | | | |
| Options: | | | | | | | | |
| (0 to 5) V 3-Wire | | | | | | | | |
| (0 to 10) V 3-Wire | (13 to 32) VDC | | | | | | | |
| (1 to 5) V 3-Wire | | | | | | | | |
| (0.5 to 4.5) V 3-Wire | 5 VDC | | | | | | | |
| (1 to 10) V 3-Wire | (13 to 32) VDC | | | | | | | |
| (1 to 6) V 3-Wire | | | | | | | | |
| (0 to 6) V 3-Wire | | | | | | | | |
| (0.5 to 4.5) V 3-Wire (non ratiometric) | 5 VDC | | | | | | | |
| Accuracy (Combined NL&H) | <±0.25 | A | | | | | | |
| Option: | <±0.1 | B | | | | | | |
| Accuracy (Thermal Zero Shift) | <±0.04%/FS/°C | 4 | | | | | | |
| Options: | <±0.02%/FS/°C | 2 | | | | | | |
| Electrical Connection | Large Plug & Socket (GDM3009, DIN43650) | -B | | | | | | |
| Options: | | | | | | | | |
| Small Plug & Socket (GDS307, DIN43650) | | -A | | | | | | |
| Screened Cable via IP66 gland | | -C | | | | | | |
| Amphenol 6 pin Bayonet connector | | -D | | | | | | |
| Vented Cable via IP68 Gland | | -E | | | | | | |
| Binder 6 Pin 723 Series connector | | -F | | | | | | |
| M12 x 1, 4 Pin connector | | -G | | | | | | |
| Process Connection | G¼" Male DIN3852 | A | | | | | | |
| Options: | | | | | | | | |
| G¼" Male DIN3852 (316 St/St) | | B | | | | | | |
| G½" Male DIN3852 | | F | | | | | | |
| G¼" Male DIN3852, 150 °C Integrated Cooler | | P | | | | | | |
| G½" Male DIN3852, 150 °C Integrated Cooler | | Q | | | | | | |
| O Ring Material: | Viton | V | | | | | | |
| Options: | | | | | | | | |
| NBR | | N | | | | | | |
| EPD | | E | | | | | | |
| Chemraz | (only avail on option 1 & 2 pressure range) | C | | | | | | |
| Options: | Cable Length in Metres | | | | | | | |
| EXAMPLE: PTX130G4-5B2-BAV (0 to 60) mBar [Customer to specify Pressure Range at end of code as shown] Pressure Transmitter, Gauge, Pressure Range, (4 to 20) mA Output, Accuracy (combined NL&H) ≤±0.01% /FS, Accuracy (Thermal Zero Shift) ≤±0.02% /FS/°C, Large Plug & Socket, G¼" Male DIN3852, O Ring Viton | | | | | | | | |