

# PT-400 Amplified Output Pressure Transducer



## Liquid Level Sensor

The PT-400 offers high accuracy and reliability over a wide range of pressures. The small size, integrated electronics, wide operating temperature range, ATEX and IECEx approval, and durability, make the PT-400 the perfect instrument for static and dynamic pressure measurements with an amplified output signal.

### Features

- Available ranges from 0 - 40,000 psi
- Standard outputs: 4-20 mA, 0-5 VDC, 0-10 VDC, RS-485
- High overpressure capability
- Zero and span adjustments
- cCSAus hazardous location approved
- ATEX approved
- IECEx approved

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# PT-400 Specifications



\*Overall length may vary depending on process connection.

## Performance

- Accuracy (linearity & hysteresis):  $\pm 0.25\%$  of full scale (BFSL)
- Standard Pressure Ranges: 0 - 40,000 psi
- Stability - One Year Zero Drift: 17-4 / 316L:  $< \pm 0.5\%$  FS
- Overpressure: 2x full scale
- Burst Pressure: up to 3x full scale or limit of process connection
- Frequency Response: Less than 5mS

## Connectivity

- Output:
  - 4-20 mA (2 wire, loop-powered)
  - 0-5 VDC, 0-10 VDC (non-isolated 3 wire)
  - Modbus/RTU (RS-485) with temp. output

## Environmental

- Standard Compensated Temp.:  $-17^{\circ}$  to  $54^{\circ}\text{C}$  ( $0^{\circ}$  to  $130^{\circ}\text{F}$ )
- Storage Temp:  $-40^{\circ}$  to  $82^{\circ}\text{C}$  ( $-40^{\circ}$  to  $180^{\circ}\text{F}$ )
- Operating Temp:  $-40^{\circ}$  to  $85^{\circ}\text{C}$  ( $-40^{\circ}$  to  $185^{\circ}\text{F}$ )

## Physical

- Weight: 10 oz. (283 g) typical
- Wetted Materials: 17-4 SS, 316L SS

## Electrical

- Supply Voltage: 9-28 VDC
- Electrical Connection: Pigtail with cable or connector
- Electrical Protection: Protected against reverse polarity, surge per IEC 61000-4-5

## Certification

- CSA/cCSAus Contract #237484
  - Ambient:  $-40^{\circ}$  to  $85^{\circ}\text{C}$
  - Max. Working Pressure: 10,000 psi
  - 0-5 VDC, 0-10 VDC, 4-20mA
    - IS: Class I, Div. 2, Groups C & D; Ex nL IIB T4
    - Class I, Zone 2; AEx nL IIB T4
  - 4-20 mA
    - IS: Class I, Div. 1, Groups C & D; Ex ia IIB T4
    - Class I, Zone 0; AEx ia IIB T4
- ATEX
  - 4-20 mA
    - Ex II 1G Ex ia IIB T4 Ga
- IECEx
  - 4-20 mA
    - Ex ia IIB T4 Ga