IPT122 Series 2 Inch Stainless Steel Indicating Pressure Transmitters

High purity applications

» Compact unit for easy installation into new or existing gas systems
» Local or remote indication of system pressure to ensure process accuracy and protect product yields
» High purity for use in all application environments

Product Description

With a variety of outputs available, Celerity's IPT122 series 2 inch stainless steel Indicating Pressure Transmitters (IPT) are very versatile devices. Accurate within 1% of full scale, the IPT can provide 0 to 5 VDC, 1 to 5 VDC or 4 to 20 mA outputs with pressure ranges up to 4,000 psi. The IPT is cleaned and double bagged in a Class 100 environment for ultimate high purity.

Features

• Solid-state design with 1 to 5 VDC, 0 to 5 VDC or 4 to 20 mA outputs
• Universal output configuration available
• Local and remote pressure monitoring
• Interfaces with automatic purge systems, PLCs or data acquisition systems
• 1 year warranty

Applications

Gas delivery systems and tools used for semiconductor processing, including:

• Bulk gas
• Gas cabinets
• Gas distribution
• Gas panels
IPT122 2 Inch Stainless Steel Indicating Pressure Transmitter Specifications

- **Case Material**: 300 Series Stainless Steel, electropolished
- **Bezel and Lens Material**: One-piece polycarbonate, screw-on
- **Socket**: 316L stainless steel
- **Movement**: 300 Series Stainless Steel
- **Bourdon Tube**: 316L Stainless Steel
- **Proof Pressure**: 110%
- **Burst Pressure**: 400%
- **Connections**: Face-seal male, face-seal swivel male, face-seal swivel female and 1/4” NPT male
- **Dial**: White with black markings. "Use No Oil" is red
- **Accuracy**: 1% of full scale
- **Helium Leak Check**: 4 x 10⁻⁶ in vacuums Std. cc/sec
- **Cleaning**: Cleared for oxygen service to ANSI B40.1 level IV specifications
- **Response Time**: Less than 200 ms/seconds
- **Operating (ambient)**: 40°F to 100°F (-48°C to 71°C)
- **Compensating**: 20°F to 120°F (-7°C to 50°C)
- **Storage**: -20°F to 176°F (-29°C to 79°C)
- **Voltage In**: 11.5 to 30 VDC (12 VDC recommended)
- **Voltage Stability**: Filtered power supply with noise < 2mV RMS, ripple < 6 mV P-P
- **Operating Current**: 40 mA maximum short circuit to ground, 8 mA continuous load, 10 mA maximum intermittent

**Output Voltage**

- **Type 1**: 0-5 VDC
- **Type 2**: 1-5 VDC
- **Type 3**: 1-5 VDC ground referenced
- **Type 4**: 4-20 mA sinking
- **Type 5**: 0-5 VDC or 1-5 VDC, or 4-20 mA current sink
- **Type 6**: 1-5 VDC ground reference, 4-20 mA sinking
- **Type 7**: 4-20 mA sourcing
- **Type 8**: 4-20 mA sourcing
- **Output Current**: 40 mA max. short circuit to ground. 10 mA continuous load

**Transmitter Leads**: 2 m (6.1 ft, tinned ends, 0.23 in diameter

**Pressure Ranges Available**: Vacuum to 4,000 PSI (276 bar). Metric also available (see chart on the left)

**Approximate Shipping Weight**: 8.5 lbs (0.39 kg)

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**Product Dimensions**

**Product Configurations**

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**For technical assistance, contact Celerity Technical Support at 972.359.4000.**

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