

Multi-Sense® - Model 231

Wet-to-Wet, Differential, Multi-Configurable Pressure Transducer



Setra's Model 231 Multi-Sense® Wet-to-Wet differential pressure transducer all-inclusive design provides users with field accessible ranging, choice of output and field zeroing.

Choose from three configurable Model 231 pressure transducers: 5 up to 50 psid, 10 up to 100 psid, or 25 up to 250 psid. Each Model 231 has 4 unidirectional and 4 bidirectional switch selectable pressure ranges and can be reconfigured in the field for 0-5 VDC, 1-5 VDC, 0-10 VDC, or 4 to 20 mA output. (The 4 to 20 mA output is operable as a true 2-wire device.) The Model 231 jumper selectable port swap feature eliminates costly replumbing if the pressure transducer is improperly installed or replaced. An optional LCD display is available for on-site indication of line and differential pressure.

The Model 231 is designed with Setra's own dual pressure sensors, which incorporate thin film sensing technology. This technology offers exceptional thermal accuracy and signal linearity. Utilizing this technology, the Model 231 is resistant to long-term drift caused by dopant migration and Fermi-level effects, intrinsic in piezoresistive and silicon based technologies, which are exaggerated at elevated temperatures and by extended pressure cycling.

3-VALVE MANIFOLD

The Model 231 can be supplied with an optional 3-Valve Manifold assembly for ease of installation and maintenance. The 3-Valve Manifold is a machined brass body requiring no internal pipe connections, thereby eliminating the risk of internal leaks. The manifold's rugged, yet compact, construction requires minimum space for installation and use. If the Model 231 is ordered with the 3-Valve Manifold, the system is shipped completely assembled and ready for wall or pipe mounting. (Order as Pressure Fitting Code 3V.)



"All-in-One"
8 Selectable Ranges...One Transducer

NOTE: Setra quality standards are based on ANSI-Z540-1.
The calibration of this product is NIST traceable.
Patent Pending

Applications

- Energy Management Systems
- Process Control Systems
- Flow Measurement of Various Gases or Liquids
- Liquid Level Measurement of Pressurized Vessels
- Pressure Drop Across Filters

Features

- Field Selectable Output
- True 4 to 20 mA Output and 0-5, 1-5, and 0-10 VDC Output
- Field Selectable Pressure Ranges
- Field Accessible Push-Button Zero and Remote Zero
- Dual Sensors
- Hinged Cover
- Field Selectable Port Swap
- Optional LCD Display
- All Cast Aluminum, NEMA 4 Rated Housing
- Meets CE Conformance Standards
- RoHS Compliant

Benefits

- Hinged Cover for Easy Access to Switch Selectable Features
- Dual Pressure Sensors Provide Independent High and Lo Pressures
- Optional LCD Display for In-Situ Viewing of Hi, Lo, and Differential Pressure
- Field Calibration Saves Time and Money
- Port Swap Feature Eliminates Replumbing Existing Installations
- Reduces Inventory
- Saves Installation Cost

ISO
9001:
2000
Certified

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