The Series 610 Low Differential Pressure Transmitters are capable of measuring the pressures and flow of air or non-conducting gases at high resolutions. Designed specifically for clean rooms, isolation rooms, and other critical environments, the Series 610 uses an improved all stainless steel micro-tig welded sensor to detect differential pressure and convert this pressure into a linear DC electrical signal by a unique electrical circuit. This unit is ideal for situations where accurate and reliable pressure monitoring is essential. Easy access pressure ports and electrical connections, removable process heads, and detachable terminal blocks make for fast and easy installation. The Series 610 transmitters are available for air pressure ranges as low as 0.1 in w.c. full-scale. Accuracy is ±0.5% or ±0.25% full-scale (terminal-based) in normal ambient temperature environments. The tensioned sensor allows up to 2 psi overpressure in either direction with absolutely no damage to the unit. The Series 610 transmitters can be ordered as either a base mount or a din rail mount and the option of a digital read out display. In addition, a calibration key can be ordered that allows the user to set zero and span. One key will work on multiple transmitters.

FEATURES
• Ranges down to 0.1 in w.c. with 0.25% or 0.5% FS accuracy
• Removeable process head for simplified installation
• Secure operation ensured with calibration only possible via separate calibration key
• Calibration certificate included with ±0.25% accuracy models

SPECIFICATIONS
Service: Air or similar non-conducting gases.
Accuracy: ±0.25% or ±0.5% FS.
Stability: ±0.5%/yr.
Temperature Limits: -20 to 160°F (-29 to 71°C).
Pressure Limits: 2 psi (0.137 bar).
Thermal Effect: 0.5% FS.
Power Requirements: 13.5 to 30 VDC.
Output: 4 to 20 mA.
Loop Resistance: 800 Ω max.
Current Consumption: 25 mA.
Zero and Span Adjustments: External security key pendant.
Response Time: 0.02 to 0.04 seconds.
Electrical Connections: Detachable screw terminal connector.
Process Connections: 3/16˝ OD barbed brass fittings on removeable process head.
Enclosure Rating: Fire retardant ABS.
Mounting Orientation: Vertical.
Weight: 9 oz (255 g).
Agency Approvals: CE.

ACCESSORIES
A-165, Security Key
A-302F-A, 303 SS Static Pressure Tip with mounting flange.
A-360, Aluminum DIN Rail 1 m
A-489, 4” Straight Static Pressure Tip with Flange
A-616, Process Head without display
A-617, Process Head with LCD display

See page 587 for process tubing options.

OPTION
For NIST traceable calibration certificate, use order code NISTCAL-PT1.

Note: For 0.25% accuracy models change last letter E to V. For Din Rail Mount use a D instead of the B in the model number (ex. 610-XXX-DXX).