

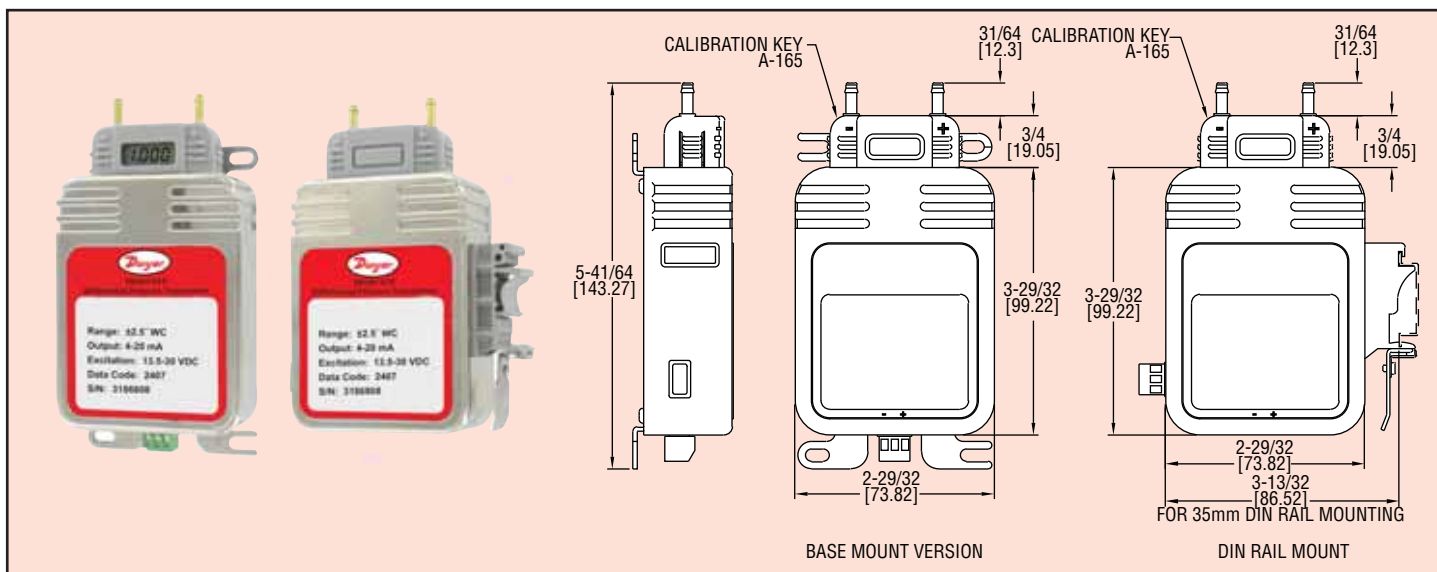


Series 610 Precision Low Differential Pressure Transmitter

Ideal for Clean Rooms, Easy to Field Calibrate with Security Key



Pressure



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 when 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" W.C. full scale. Standard accuracy is $\pm 0.25\%$ 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" w.c. with 0.25% or 0.5% F.S. accuracy
- Removeable process head for simplified installation
- Secure operation ensured with calibration only possible via separate calibration key

SPECIFICATIONS

- Service:** Air or similar non-conducting gases.
- Accuracy:** $\pm 0.25\%$ or $\pm 0.5\%$ F.S.
- Stability:** $\pm 0.5\%/yr$.
- Temperature Limits:** -20 to 160°F (-29 to 71°C).
- Pressure Limits:** 100 psi (6.8 bar).
- Thermal Effect:** 0.5% FS.
- Power Requirements:** 13.5 to 30 VDC.
- Output:** 4 to 20 mA.
- Loop Resistance:** 800 ohms 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" O.D. 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-616, Process Head without display
- A-617, Process Head with LCD display

0.25% Accuracy				0.5% Accuracy			
With Display		Without Display		With Display		Without Display	
Model	Range	Model	Range	Model	Range	Model	Range
610-01D-BDV	0-.1"	610-01D-BNV	0-.1"	610-01D-BDE	0-.1"	610-01D-BNE	0-.1"
610-25D-BDV	0-.25"	610-25D-BNV	0-.25"	610-25D-BDE	0-.25"	610-25D-BNE	0-.25"
610-05D-BDV	0-.5"	610-05D-BNV	0-.5"	610-05D-BDE	0-.5"	610-05D-BNE	0-.5"
610-01A-BDV	0-1"	610-01A-BNV	0-1"	610-01A-BDE	0-1"	610-01A-BNE	0-1"
610-25A-BDV	0-2.5"	610-25A-BNV	0-2.5"	610-25A-BDE	0-2.5"	610-25A-BNE	0-2.5"
610-05A-BDV	0-5"	610-05A-BNV	0-5"	610-05A-BDE	0-5"	610-05A-BNE	0-5"
610-10A-BDV	0-10"	610-10A-BNV	0-10"	610-10A-BDE	0-10"	610-10A-BNE	0-10"
610-01C-BDV	± 1 "	610-01C-BNV	± 1 "	610-01C-BDE	± 1 "	610-01C-BNE	± 1 "
610-25C-BDV	$\pm .25$ "	610-25C-BNV	$\pm .25$ "	610-25C-BDE	$\pm .25$ "	610-25C-BNE	$\pm .25$ "

Note: For Din Rail Mount use a D instead of the B in the model number (ex. 610-XXX-DXX).