Differential Pressure Transmitters

The SERIES 616KD Differential Pressure Transmitters with One-Touch® Digital Push-Button Calibration Technology are designed for simplicity, making them the ideal choice for installers and maintenance professionals. These instruments not only alleviate cumbersome turn pots typically found in most transmitters, but eliminate entirely the need to span the instruments during calibration. With a single digital push button, both ZERO AND SPAN are calibrated properly, nothing else is required. No additional reference pressure sources or separate calibration devices are necessary.

FEATURES AND BENEFITS

• Simple calibration push-button sets back zero and span, saving time installing and over the service life.
• Cost effective and compact device suitable for OEM applications where space, simplicity, and value are key.
• Ranges and accuracy selection cover a wide range of applications minimizing components and determining standardizing on design.

APPLICATIONS

• Air handlers
• Duct pressure
• Variable air volume
• Filter monitoring

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: 616KD-A: ±0.25% FS; 616KD-B: ±1% FS, 616KD: ±2% FS.
Stability: ±1% FS/year.
Pressure Limits: 2 psig (ranges 5 in w.c. or lower); 5 psig (ranges 10 to 40 in w.c.).
Temperature Limits: 0 to 140°F (-17.8 to 60°C).
Compensated Temperature Range: 20 to 122°F (-6.67 to 50°C).
Pressure Limits: 2 psig (ranges 5 in w.c. or lower); 5 psig (ranges 10 to 40 in w.c.).
Thermal Effect: 616KD-A: ±0.02% FS/°F; 616KD-B: ±0.04% FS/°F; 616KD: ±0.06% FS/°F, includes zero and span.
Power Requirements: 4-20 mA output: 10 - 35 VDC (2 wire) or 12-26 VAC (4 wire); 5V output: 10 - 35 VDC (3 wire) or 12-26 VAC (4 wire); 10V output: 13 - 35 VDC (3 wire) or 12-26 VAC (4 wire).
Output Signal: 4 to 20 mA or option with field selectable 0-10, 0-5, 2-10, 1-5 volts.
Zero and Span Adjustments: Push button.
Loop Resistance: 4-20 mA output (DC): 0 - 1250 Ω max. Rmax = 50(VpsDC -10) Ω; 4-20 mA output (AC): 0 - 1200 Ω max. Rmax = 50(1.4VpsAC -12) Ω; Voltage output: 5K Ω minimum.
Current Consumption: 24 mA max.
Warm up time: 20 minutes.
Electrical Connections: Screw-type terminal block.
Process Connections: Barbed, dual size to fit 1/8˝ & 3/16˝ (3 mm and 5 mm) ID rubber or vinyl tubing.
Enclosure Rating: NEMA 1 (IP20).
Mounting Orientation: Vertical with pressure connections pointing down.
Weight: 1.8 oz (51 g).
Agency Approvals: CE.

MODEL CHART

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Note: 0.25% FS accuracy is not available in the following ranges: 00, 01, 10, 11.