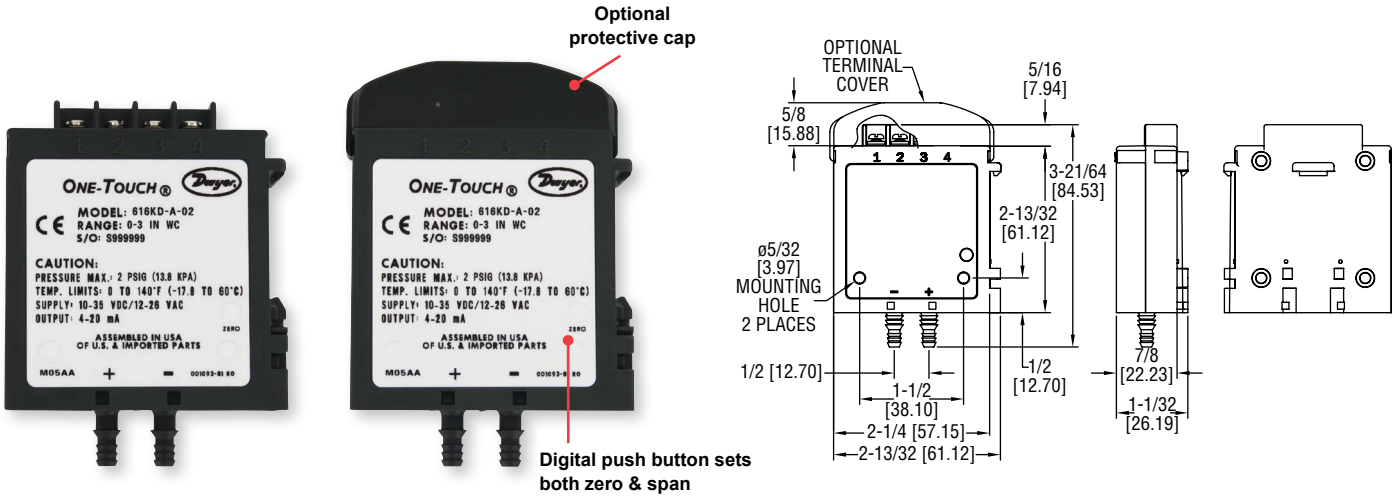
DIFFERENTIAL PRESSURE TRANSMITTER ±0.25, ±1, OR ±2% ACCURACY

One-Touch® Digital Push-Button Calibration Technology



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 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

MODEL CHART					
Example	**616KD**	**-A**	**-12**	**-AT**	**616KD-A-12-AT**
Series	616KD				Differential pressure transmitter
Accuracy		A			0.25% full-scale accuracy
		B			1.0% full-scale accuracy
					2.0% full-scale accuracy
Range			00		0 to 1 in w.c.
			01		0 to 2 in w.c.
			02		0 to 3 in w.c.
			03		0 to 5 in w.c.
			04		0 to 10 in w.c.
			05		0 to 15 in w.c.
			06		0 to 20 in w.c.
			07		0 to 25 in w.c.
			08		0 to 40 in w.c.
			10		0 to 250 Pa
			11		0 to 500 Pa
			12		0 to 750 Pa
			13		0 to 1250 Pa
			14		0 to 2500 Pa
			15		0 to 5000 Pa
			50		0 to ±1 in w.c.
			51		0 to ±2 in w.c.
			57		0 to ±3 in w.c.
			52		0 to ±5 in w.c.
			53		0 to ±10 in w.c.
			54		0 to ±250 Pa
			55		0 to ±500 Pa
			56		0 to ±750 Pa
			58		0 to ±1250 Pa
Options				AT	Aluminum tag
				FC	Factory calibration
				NIST	NIST certification
				TC	Terminal cover
				V	Voltage output 0 to 5, 1 to 5, 0 to 10, 2 to 10 VDC (field selectable)
Note: 0.25% FS accuracy is not available in the following ranges 00, 01, 10,11.					

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.
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(1.4 VpsAC -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.