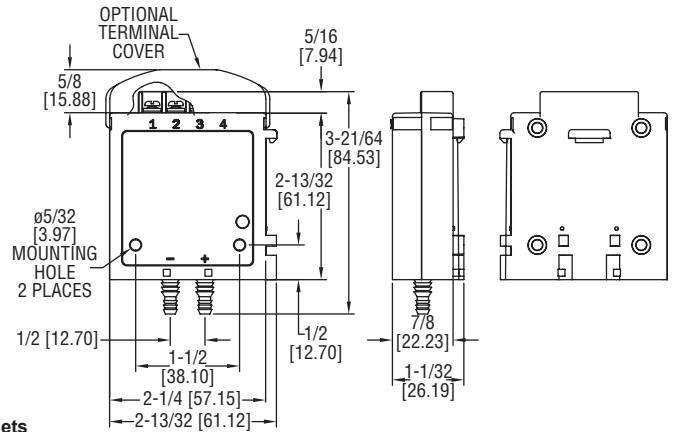
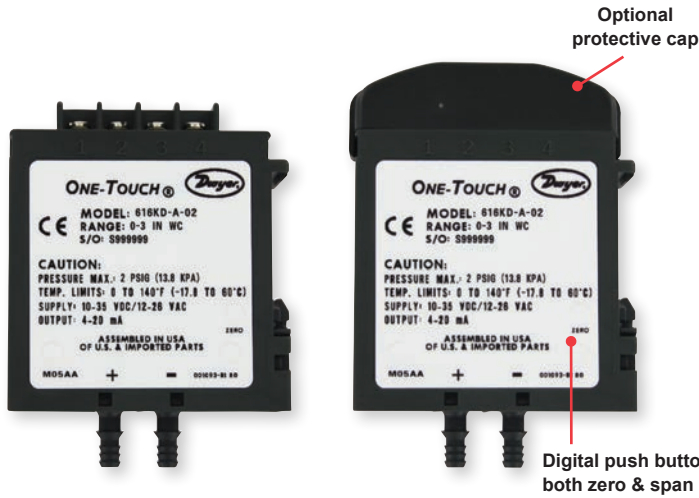




# DIFFERENTIAL PRESSURE TRANSMITTER $\pm 0.25$ , $\pm 1$ , OR $\pm 2\%$ ACCURACY

One-Touch<sup>®</sup> Digital Push-Button Calibration Technology



The **SERIES 616KD** Differential Pressure Transmitters with One-Touch<sup>®</sup> 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

### SPECIFICATIONS

**Service:** Air and non-combustible, compatible gases.  
**Wetted Materials:** Consult factory.  
**Accuracy:** 616KD-A:  $\pm 0.25\%$  FS; 616KD-B:  $\pm 1\%$  FS, 616KD-C:  $\pm 2\%$  FS.  
**Stability:**  $\pm 1\%$  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:  $\pm 0.02\%$  FS/°F; 616KD-B:  $\pm 0.04\%$  FS/°F; 616KD-C:  $\pm 0.06\%$  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  $\Omega$  max.  $R_{max} = 50(V_{psDC} - 10) \Omega$ ; 4-20 mA output (AC): 0 - 1200  $\Omega$  max.  $R_{max} = 50(1.4 V_{psAC} - 12) \Omega$ ; Voltage output: 5K  $\Omega$  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 Approval:** CE.

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
	C		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 in w.c.
		11	0 to 500 in w.c.
		12	0 to 750 in w.c.
		13	0 to 1250 in w.c.
		14	0 to 2500 in w.c.
		15	0 to 5000 in w.c.
		50	0 to $\pm 1$ in w.c.
		51	0 to $\pm 2$ in w.c.
		57	0 to $\pm 3$ in w.c.
	52	0 to $\pm 5$ in w.c.	
	53	0 to $\pm 10$ in w.c.	
	54	0 to $\pm 250$ Pa	
	55	0 to $\pm 500$ Pa	
	56	0 to $\pm 750$ Pa	
	58	0 to $\pm 1250$ 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.