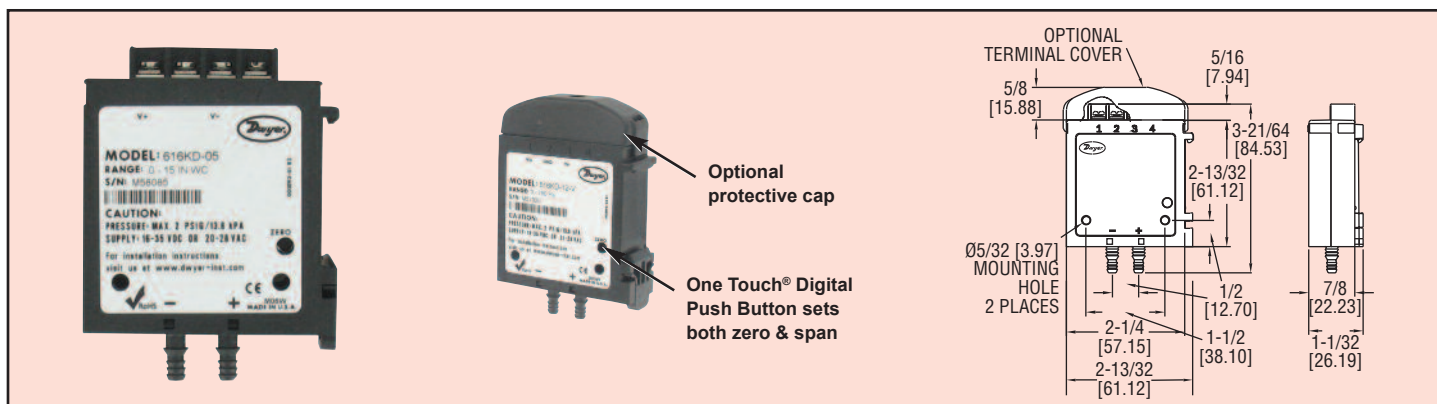




Series  
616KD

# Differential Pressure Transmitter

Digital Push-Button Calibration with One-Touch® Transmitter Technology, DIN Mount Housing



The Series 616KD Differential Pressure Transmitters with One-Touch® technology are designed for simplicity, making them the ideal choice for installers and maintenance professionals.

The One-Touch® Differential Pressure Transmitters are cost-effective, compact transmitters that reduce up front costs as well as expenses over the life of the product. These instruments not only alleviate cumbersome turn pots typically found in most transmitters, but eliminate entirely the need to span the instrument during calibration. With a single digital push button, both ZERO AND SPAN are calibrated properly, nothing else is required. No additional reference pressure sources and separate calibration devices are necessary; no need to remove from service and send to a lab. All that is required of the installer or user is to let the unit sit at zero reference pressure, then push a button. That is it! The transmitter is now ready for operation. Time savings are enormous over the life of the product compared to traditional transmitters which require time to annually remove the product from service plus the additional time to actually perform a complete full-span calibration.

Mounting is simple with integral mounting holes on the 616KD that are inherent to the molded housing. The 616KD has the expanded capability to be mounted on a 35 mm DIN rail either via its side or back integral DIN rail clips. The Series 616KD has easy-to-wire open screw terminals at the top of the housing. An optional protective cap snaps directly to housing to cover terminals.

The One-Touch® family of Differential Pressure Transmitters are ideal for building automation applications such as air handlers, duct pressure, variable air volume and filter monitoring. Available models include ranges from 1 in w.c. to 20 in w.c. depending on series.

## ACCESSORIES

**A-302F-A**, 303 SS Static Pressure Tip with mounting flange. For 3/16" ID rubber or plastic tubing. 4" insertion depth. Includes mounting screws

**A-360**, Aluminum DIN Rail, 1 m

**A-480**, Plastic Static Pressure Tip

**A-489**, 4" Straight Static Pressure Tip with Flange

**A-618**, Protective Terminal Cap

**SCD-PS**, 100 to 240 VAC/VDC to 24 VDC Power Supply

## OPTION

For NIST traceable calibration certificate, add suffix -NIST to model numbers.

Example: 616KD-01-NIST.

## SPECIFICATIONS

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Consult factory.

**Accuracy:**  $\pm 2\%$  FS.

**Stability:**  $\pm 1\%$  FS/year.

**Temperature Limits:** 32 to 122°F (0 to 50°C).

**Pressure Limits:** 2 psi (13.8 kPa).

**Thermal Effect on Span:**  $\pm 0.11\%$  FS/°F ( $\pm 0.19\%$  FS/°C) typ.

**Thermal Effect on Zero:** 616KD-X0: 0.6%/°F (1%/°C); 616KD-X1: 0.3%/°F (0.5%/°C); 616KD-X2: 0.2%/°F (0.33%/°C); 616KD-X3: 0.12%/°F (0.2%/°C); 616KD-X4: 0.06%/°F (0.1%/°C) FS max.

**Power Requirements:** 16 to 35 VDC (2 or 3 wire), 20 to 28 VAC (3 wire).

**Output Signal:** 4 to 20 mA or unit with field selectable 0 to 10 & 0 to 5 volt.

**Zero and Span Adjustments:** Push button.

**Loop Resistance:** DC=1000  $\Omega$  max.; AC=1200  $\Omega$  max.

**Current Consumption:** 21 mA max.

**Electrical Connections:** Screw-type terminal block.

**Process Connections:** Barbed, dual size to fit 1/8" & 3/16" (3 mm & 5 mm) ID rubber or vinyl tubing.

**Enclosure Rating:** NEMA1 (IP10).

**Mounting Orientation:** Position insensitive.

**Weight:** 1.8 oz (51 g).

**Agency Approval:** CE.

Model	Range
616KD-00	0 to 1 in w.c.
616KD-01	0 to 2 in w.c.
616KD-02	0 to 3 in w.c.
616KD-03	0 to 5 in w.c.
616KD-04	0 to 10 in w.c.
616KD-05	0 to 15 in w.c.
616KD-06	0 to 20 in w.c.
616KD-07	0 to 25 in w.c.
616KD-10	0 to 250 Pa
616KD-11	0 to 500 Pa
616KD-12	0 to 750 Pa
616KD-13	0 to 1250 Pa
616KD-14	0 to 2500 Pa

**Note:** For field selectable 0 to 10 / 0 to 5 volt output models, add -V to end of model. Ex: 616KD-01-V.