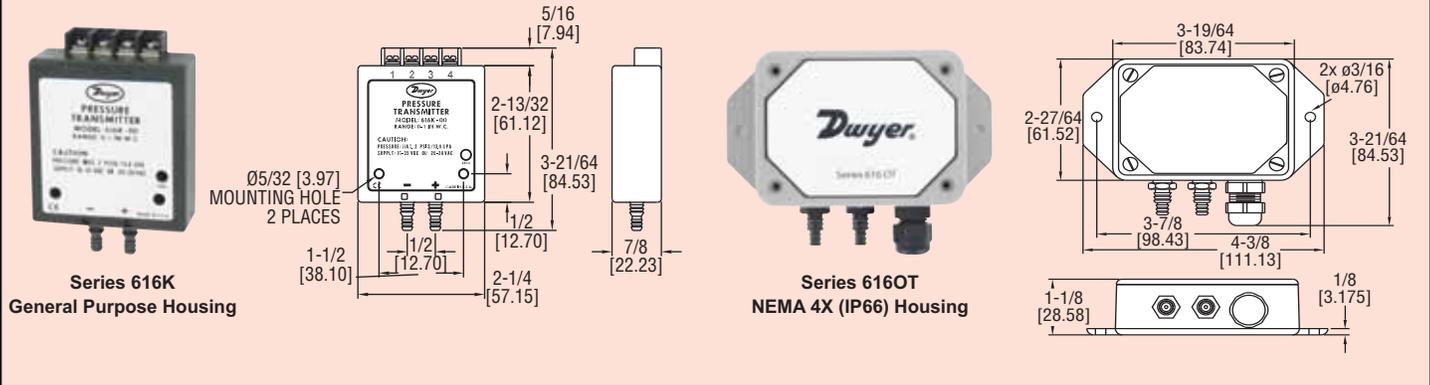




Series  
616K  
&  
616OT

# Differential Pressure Transmitter

Cost Effective for B.A.S. Applications, Digital Push-Button Calibration  
with One-Touch® Transmitter Technology



The Series 616K & 616OT 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 616K or mounting tabs on the 616OT that are inherent to the molded housing. The Series 616K has easy-to-wire open screw terminals at the top of the housing while the Series 616OT possesses a convenient removable terminal block that allows the installer to wire externally, then snap the wired block back onto the board inside the enclosure. The Series 616OT provides an enhanced NEMA 4X (IP66) enclosure.

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" w.c. to 20" w.c. depending on series.



## SPECIFICATIONS

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

**Wetted Materials:** Consult factory.

**Accuracy:** 616K:  $\pm 2\%$  F.S.; 616OT:  $\pm 1\%$  F.S.

**Stability:**  $\pm 1\%$  F.S. / year.

**Temperature Limits:** 616K: 32 to 122°F (0 to 50°C); 616OT: 0 to 140°F (-18 to 60°C).

**Pressure Limits:** 616K: 2 psi (13.8 kPa); 616OT: 1 psi maximum operation; 10 psi burst.

**Thermal Effect:** 616OT:  $\pm 0.05\%/^{\circ}\text{F}$  ( $\pm 0.03\%/^{\circ}\text{C}$ ).

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

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

**Power Requirements:** 616K: 16-35 VDC (2 or 3 wire), 20-28 VAC (3 wire);

616OT: 10-35 VDC (2-wire).

**Output Signal:** 4 to 20 mA.

**Zero and Span Adjustments:** Pushbutton.

**Loop Resistance:** 616K: DC=1000 ohms maximum, AC=1200 ohms maximum; 616OT: 1250 ohms maximum.

**Current Consumption:** 616K: 21 mA maximum; 616OT: 40 mA maximum.

**Electrical Connections:** 616K: Screw-type terminal block; 616OT: Removable European style terminal block for 16 to 26 AWG.

**Electrical Entry:** 616 OT: Cable gland for 0.114 to 0.250" (2.9 to 6.4 mm) diameter cable.

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

**Enclosure Rating:** 616K: NEMA1 (IP20); 616OT: NEMA 4X (IP66).

**Mounting Orientation:** Position insensitive.

**Weight:** 616K: 1.8 oz (51 g); 616OT: 4.0 oz (115 g).

**Agency Approval:** CE.

## ACCESSORY

A-480, Plastic Static Pressure Tip

Model	Range	Model	Range
616K-00	0-1" w.c.	616K-10	0-250 Pa
616K-01	0-2" w.c.	616K-11	0-500 Pa
616K-02	0-3" w.c.	616K-12	0-750 Pa
616K-03	0-5" w.c.	616K-13	0-1250 Pa
616K-04	0-10" w.c.	616K-14	0-2500 Pa

Model	Range
616OT-10	10" w.c.
616OT-15	15" w.c.
616OT-20	20" w.c.
616OT-2 KPA	2 kPa
616OT-3 KPA	3 kPa
616OT-5 KPA	5 kPa