SERIES 616KD | DIFFERENTIAL PRESSURE TRANSMITTER ±0.25, ±1 OR 2% ACCURACY

Side mount zero

BENEFITS/FEATURES

- **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**
- **Optional 1/8˝ NPT process connection allows for use with metal barbed fittings or compression fittings for use with metal tubing**
- **Side mounted push button zero (-A and -B models only)**

APPLICATIONS

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

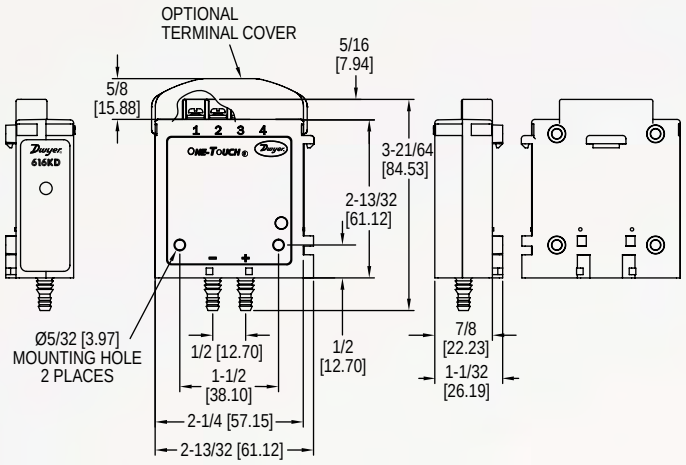
DESCRIPTION

The **Series 616KD Differential Pressure Transmitters ±0.25, ±1 or 2% Accuracy** 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.

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); 10 V output: 13-35 VDC (3-wire) or 12-26 VAC (4wire) for 616KD A and B. 16 to 36 VDC (2 or 3-wire): 20-28 VAC (3-wire) for 616KD.
Output Signal	4-20 mA or option with field selectable 0-10, 0-5, 2-10, 1-5 V.
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 for 616KD A and B. 21 mA max for 616KD.
Electrical Connections	Screw-type terminal block.
Process Connections	Barbed, dual size to fit 1/8˝ and 3/16˝ (3 mm and 5 mm) ID rubber or vinyl tubing.
Enclosure Rating	NEMA 1 (IP20), tested to UL 2043 for plenum applications.
Mounting Orientation	Vertical with pressure connections pointing down.
Weight	1.8 oz (51 g).
Compliance	CE.

DIMENSIONS



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

616KD **-A** **-12** **-AT**

SERIES
616KD: Differential pressure transmitter

ACCURACY
-A: 0.25% FS accuracy
-B: 1.0% FS accuracy
: 2.0% FS accuracy

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

OPTIONS
-AT: Aluminum tag
-FC: Factory calibration
-NIST: NIST certification
-TC: Terminal cover
-V: Voltage output 0-5, 1-5, 0-10, 2-10 VDC (field selectable)

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

DWYER INSTRUMENTS, LLC

Printed in U.S.A. 2/22

DS-616KD Rev. 6