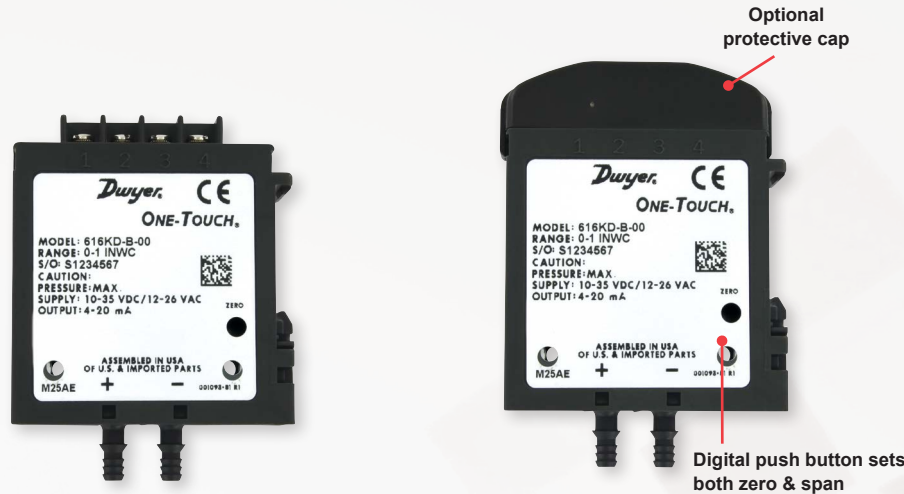




SERIES 616KD | DIFFERENTIAL PRESSURE TRANSMITTER ± 0.25 , ± 1 OR 2% ACCURACY



FEATURES/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
- Optional plenum rated units meeting UL Standard 2043 are available

APPLICATIONS

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

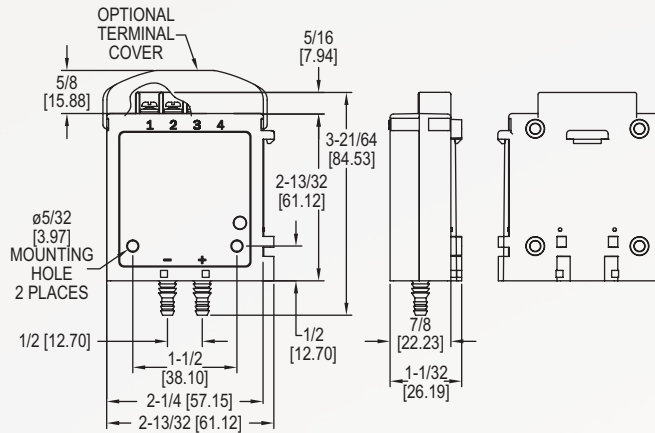
DESCRIPTION

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: $\pm 0.25\%$ FS; 616KD-B: $\pm 1\%$ FS, 616KD: $\pm 2\%$ 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: $\pm 0.06\%$ 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) for 616KD A and B. 16 to 36 VDC (2 or 3 wire): 20 to 28 VAC (3 wire) for 616KD. |
| 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 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" & 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, optional plenum rated units meet UL Standard 2043. |

DIMENSIONS



HOW TO ORDER

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

| | | | | | |
|---|--------------|-----------|------------|------------|--|
| | 616KD | -A | -12 | -AT | |
| SERIES | | | | | OPTIONS |
| 616KD: Differential pressure transmitter | | | | | -AT: Aluminum tag |
| ACCURACY | | | | | -FC: Factory calibration |
| -A: 0.25% full-scale accuracy | | | | | -NIST: NIST certification |
| -B: 1.0% full-scale accuracy | | | | | -TC: Terminal cover |
| : 2.0% full-scale accuracy | | | | | -V: Voltage output 0-5, 1-5, 0-10, 2-10 VDC (field selectable) |
| Note: 0.25% FS accuracy is not available in the following ranges 00, 01, 10, 11. | | | | | -PR: Plenum rated |
| | | | | | 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 |

ORDER ONLINE TODAY!

dwyer-inst.com/Product/Series616KD



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DS-616KD Rev. 3

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