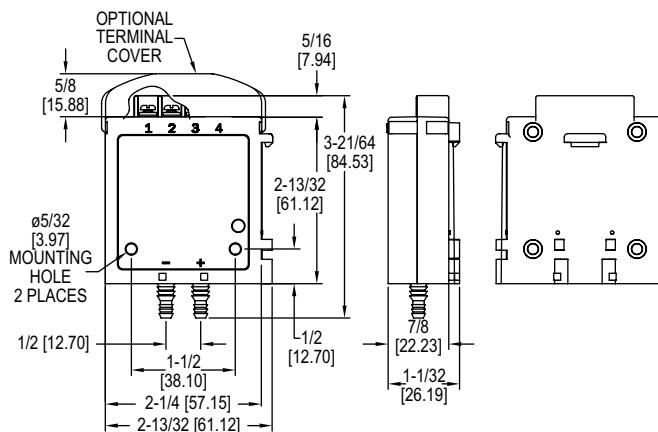
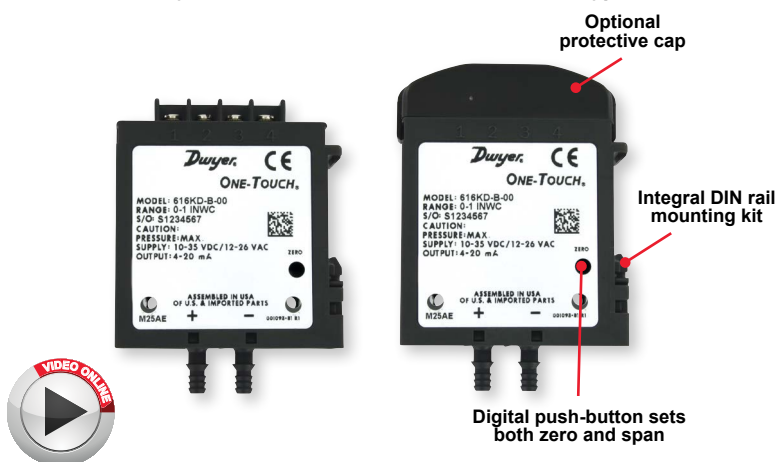


DIFFERENTIAL PRESSURE TRANSMITTERS  $\pm 0.25$ ,  $\pm 1$ , OR  $\pm 2\%$  ACCURACY

One-Touch® Digital Push-Button Calibration Technology



The Series 616KD Differential Pressure Transmitters  $\pm 0.25$ ,  $\pm 1$ , or  $\pm 2\%$  Accuracy with One-Touch® 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 a 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/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 1/8" NPT process connection allows for use with metal barbed fittings or compression fittings for use with metal tubing
- Optional plenum rated units meeting UL Standard 2043 are available

## APPLICATIONS

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

## MODEL CHART

| Example  | 616KD | -A     | -12                                                                                                                                          | -AT                                    | 616KD-A-12-AT                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-------|--------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series   | 616KD |        |                                                                                                                                              |                                        | Differential pressure transmitter                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accuracy |       | A<br>B |                                                                                                                                              |                                        | 0.25% FS accuracy<br>1.0% FS accuracy<br>2.0% FS accuracy                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Range    |       |        | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>10<br>11<br>12<br>13<br>14<br>15<br>50<br>51<br>57<br>52<br>53<br>54<br>55<br>56<br>58 |                                        | 0 to 1 in w.c.<br>0 to 2 in w.c.<br>0 to 3 in w.c.<br>0 to 5 in w.c.<br>0 to 10 in w.c.<br>0 to 15 in w.c.<br>0 to 20 in w.c.<br>0 to 25 in w.c.<br>0 to 40 in w.c.<br>0 to 250 Pa<br>0 to 500 Pa<br>0 to 750 Pa<br>0 to 1250 Pa<br>0 to 2500 Pa<br>0 to 5000 Pa<br>0 to $\pm 1$ in w.c.<br>0 to $\pm 2$ in w.c.<br>0 to $\pm 3$ in w.c.<br>0 to $\pm 5$ in w.c.<br>0 to $\pm 10$ in w.c.<br>0 to $\pm 250$ Pa<br>0 to $\pm 500$ Pa<br>0 to $\pm 750$ Pa<br>0 to $\pm 1250$ Pa |
| Options  |       |        |                                                                                                                                              | AT<br>FC<br>NIST<br>TC<br>V<br>N<br>PR | Aluminum tag<br>Factory calibration<br>NIST certification<br>Terminal cover<br>Voltage output 0-5, 1-5, 0-10, 2-10 VDC (field selectable)<br>1/8" female NPT<br>Plenum rated                                                                                                                                                                                                                                                                                                   |

Note: 0.25% FS accuracy is not available in the following ranges 00, 01, 10, 11, 50, 51, 54, 55

## 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); 5 V output: 10-35 VDC (3-wire) or 12-26 VAC (4-wire); 10 V output: 13-35 VDC (3-wire) or 12-26 VAC (4-wire) for 616KD A and B. 16-36 VDC (2-wire 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 to 1250  $\Omega$  max.  $R_{max} = 50$  (VpsDC -10)  $\Omega$ ; 4-20 mA output (AC): 0 to 1200  $\Omega$  max.  $R_{max} = 50$  (1.4 VpsAC -12)  $\Omega$ ; Voltage output: 5K  $\Omega$  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).  
**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.

## ACCESSORIES

| Model | Description             |
|-------|-------------------------|
| A-360 | Aluminum DIN rail 1 m   |
| A-618 | Protective terminal cap |



Optional NPT connection block



PVN ENGINEERING CO., LTD.  
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