

Series 616KX

Differential Pressure Transmitter $\pm 0.25\%$, $\pm 0.50\%$, $\pm 1.0\%$, $\pm 2.0\%$
Accuracy



Benefits/Features

- Extensive range and accuracy selection suitable for a broad range of applications offering maximum flexibility in one product platform.
- Cost effective and compact device suitable for OEM applications where space, simplicity, and value are key.
- Edge mounted push button zero for easy access in all mounting configurations saves time.
- Optional 1/8 in NPT and BSPT process connection allows customer to use their own fittings.

Applications

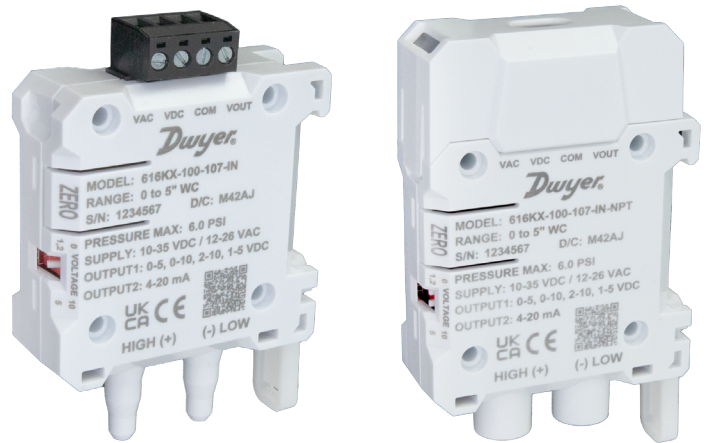
- Air handlers
- Duct pressure
- Variable air volume
- Filter monitoring

Description

The Series 616KX Differential Pressure Transmitters are the ideal choice for installers and maintenance professionals that want maximum flexibility in pressure ranges in a compact design. Dwyer's smallest differential pressure transmitter is designed for simplicity with edge mounted push button zero for easy access in all mounting configurations and field selectable output signals. The molded housing accommodates three sizes of both imperial and metric process connections, along with optional 1/8 in NPT or BSPT threaded models, make process connections simple.

Specifications

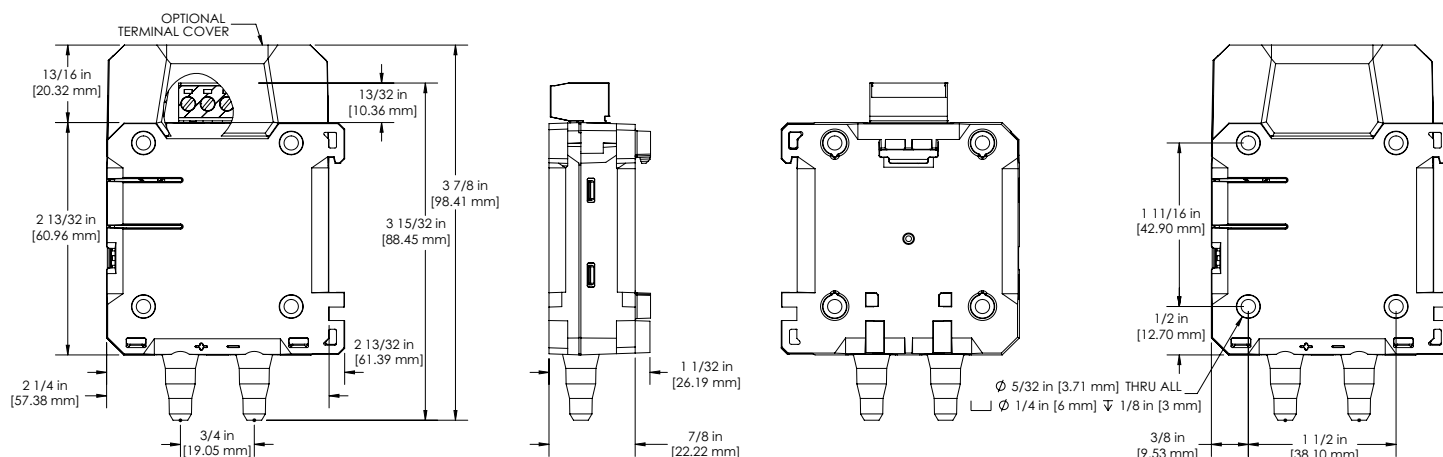
Service	Air and non-combustible, compatible gases.
Wetted Materials	Consult factory.
Accuracy	616KX-025 $\pm 0.25\%$ FSO 616KX-050 $\pm 0.50\%$ FSO 616KX-100 $\pm 1.0\%$ FSO 616KX-200 $\pm 2.0\%$ FSO
Stability	$< \pm 1\%$ / year FSO.
Temperature Limits	-4 °F to 159 °F (-20 °C to 70 °C).
Pressure Limits	3.6 psig for ranges 0 in w.c. to 1 in w.c. (25 Pa to 250 Pa; 2.5 mm w.c. to 25 mm w.c.) 6 psig for ranges 0 in w.c. to 40 in w.c. (500 Pa to 10000 Pa; 50 mm w.c. to 1000 mm w.c.)
Thermal Effect	0.02 % FS / °F (0.036 % FS / °C).
Power Requirements	10 Vdc to 36 Vdc (2-wire), 17 Vdc to 36 Vdc or isolated 21.6 Vac to 33 Vac (3-wire)
Output Signal	4 mA to 20 mA or option with field selectable 0 V to 10 V, 0 V to 5 V, 2 V to 10 V, 1 V to 5 V.



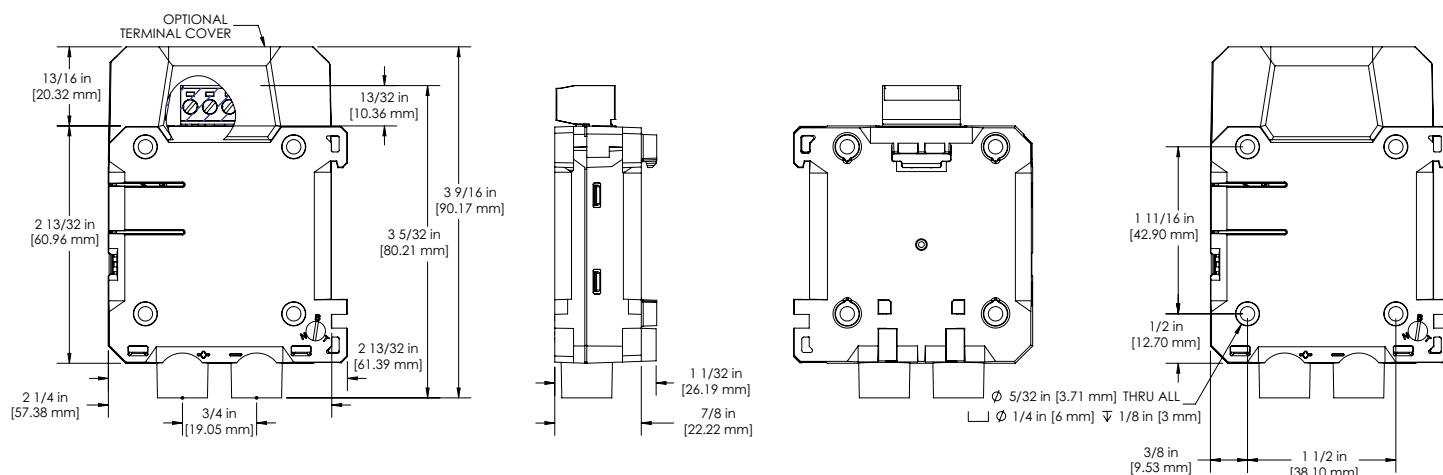
Zero Adjustment	Push button.
Loop Resistance	0 Ohms to 1250 Ohms.
Current Consumption	21 mA max.
Electrical Connections	Screw-type terminal block.
Process Connections	Barbed, male ports for 1/8 in, 3/16 in, 1/4 in, 5 mm, 6 mm ID flexible tubing.
Enclosure Rating	NEMA 1 (IP20).
Mounting Orientation	Not sensitive to position. 35 mm DIN rail side and back. Mounting holes for wall mount with #6 screws.
Weight	1.8 oz (51 g)
Compliance	CE, RoHS 3, Plenum Rated (UL 2043), UL94 V-0.

Dimensions

Standard



-NPT Variant



How to Order

616KX	-100	-1	00	-IN
Series 616KX: Differential Pressure Transmitter				Options -NPT: NPT threads -BSPT: BSPT Threads -TC: Terminal Cover -Z1: Zero dead band (1 % dead band) -Z2: Zero dead band (2 % dead band) -FC: Factory Calibration Certificate -NIST: NIST Accuracy Report
Accuracy -025: ±0.25 % FSO Accuracy -050: ±0.5 % FSO Accuracy -100: ±1.0 % FSO Accuracy -200: ±2.0 % FSO Accuracy				
Direction -1: Uni-directional -2: Bi-directional				
Range 00: 0 in w.c. to 0.1 in w.c. (25 Pa, 2.5 mm w.c.) 01: 0 in w.c. to 0.25 in w.c. (60 Pa, 5 mm w.c.) 02: 0 in w.c. to 0.4 in w.c. (100 Pa, 10 mm w.c.) 03: 0 in w.c. to 0.5 in w.c. (125 Pa, 12 mm w.c.) 04: 0 in w.c. to 1 in w.c. (250 Pa, 25 mm w.c.) 05: 0 in w.c. to 2 in w.c. (500 Pa, 50 mm w.c.) 06: 0 in w.c. to 3 in w.c. (750 Pa, 100 mm w.c.) 07: 0 in w.c. to 5 in w.c. (1250 Pa, 125 mm w.c.) 08: 0 in w.c. to 10 in w.c. (2500 Pa, 250 mm w.c.) 09: 0 in w.c. to 15 in w.c. (3750 Pa, 400 mm w.c.) 10: 0 in w.c. to 20 in w.c. (5000 Pa, 450 mm w.c.) 11: 0 in w.c. to 25 in w.c. (6250 Pa, 500 mm w.c.) 12: 0 in w.c. to 40 in w.c. (10000 Pa, 1000 mm w.c.)				Units of Measure -IN: Inches of water column -PA: Pascals -MM: Millimeters of water column

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