



Series
616W

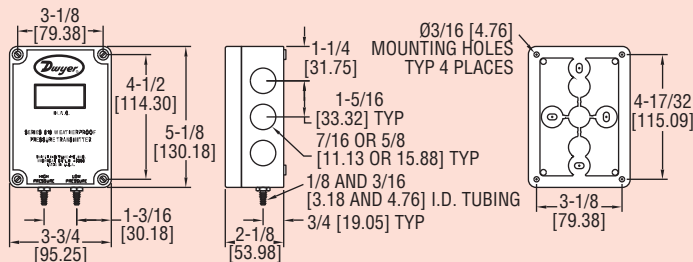
Differential Pressure Transmitter

NEMA 4X Enclosure, 0.25% Full Scale Accuracy



PRESSURE

Differential Pressure Transmitters



Positive, negative and differential pressures can be measured within a full span accuracy of $\pm 0.25\%$ with the Series 616W Differential Pressure Transmitter. Units are enclosed in a polycarbonate case, rated NEMA 4X (IP66) and operate by sensing the pressure of air and compatible gases, then sending a standard 4-20 mA output signal. Design enables operation in 2-wire current loops. A wide range of models are available factory calibrated to specific ranges. The span and zero controls are for use when checking calibration. They are not intended for re-ranging to a significantly different span. The LCD (as shown above) allows local indication of pressure.

Model	Range	Max. Press.
616W-2-LCD	0-6 in w.c.	5 psig
616W-3-LCD	0-10 in w.c.	5 psig
616W-4-LCD	0-20 in w.c.	11 psig
616W-5-LCD	0-40 in w.c.	11 psig
616W-6-LCD	0-100 in w.c.	29 psig
616W-7-LCD	0-200 in w.c.	29 psig
616W-20B-LCD	10-0-10 in w.c.	11 psig
616W-3M-LCD	0-2.5 kPa	34.5 kPa

Note: Units with "M" in the model number are metric units.

OPTION

For NIST traceable calibration certificate, add suffix -NIST to model numbers.
Example: 616W-3-LCD-NIST.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

Accuracy: $\pm 0.25\%$ FS, display accuracy $\pm 0.5\%$.

Stability: $\pm 1\%$ FS/yr.

Temperature Limits: 0 to 140°F (-17.8 to 60°C).

Compensated Temperature Limits: 20 to 120°F (-6.67 to 48.9°C).

Pressure Limits: See chart.

Thermal Effect: $\pm 0.02\%$ FS/°F (0.0012% FS/°C).

Power Requirements: 10-35 VDC (2-wire).

Output Signal: 4 to 20 mA.

Zero and Span Adjustments:

Potentiometers for zero and span.

Loop Resistance: DC; 0-1250 Ω max.

Current Consumption: DC; 38 mA max.

Electrical Connections: Screw-type terminal block.

Process Connections: Barbed, dual size to fit 1/8" and 3/16" (3.12 and 4.76 mm) ID rubber or vinyl tubing.

Enclosure Rating: NEMA 4X (IP66).

Mounting Orientation: Vertical, consult factory for other position orientations.

Weight: Without LCD 8.8 oz. (249 g); with LCD 9.6 oz (272 g).

Agency Approvals: CE.

Process Tubing Options: See page 547 (Gage Tubing Accessories)