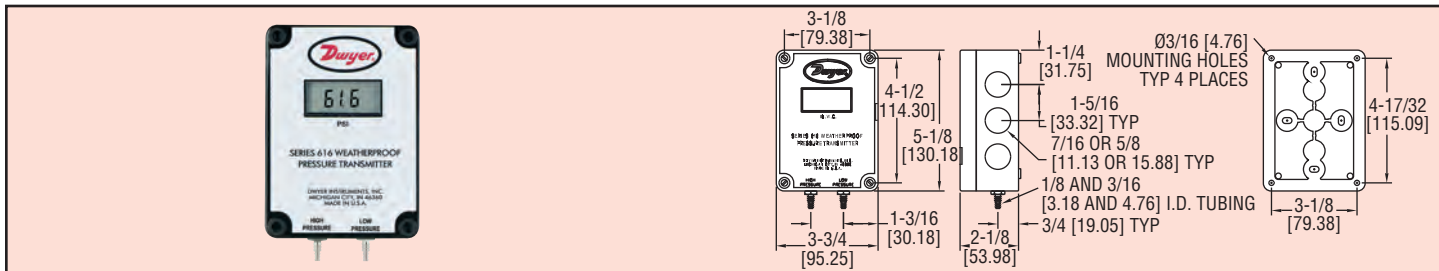


Series  
616W

# Differential Pressure Transmitter

NEMA 4X Enclosure, 0.25% Full Scale Accuracy



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.  
See page 567 for process tubing options.

## 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.

## OPTION

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

## Zero and Span Adjustments:

Potentiometers for zero and span.

**Loop Resistance:** DC; 0-1250  $\Omega$  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.