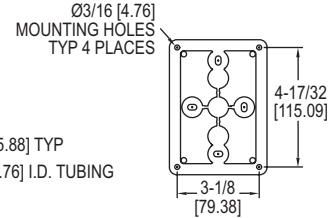
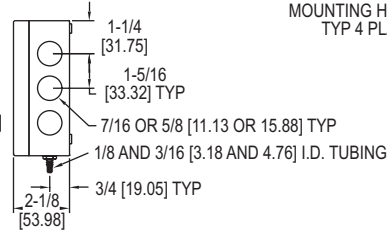
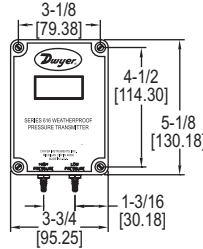


**Dwyer****SERIES 616W**

# DIFFERENTIAL PRESSURE TRANSMITTER

**NEMA 4X Enclosure, 0.25% FS 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 display allows local indication of pressure.

**FEATURES/BENEFITS**

- NEMA 4X rated enclosure provides protection in harsh environments permitting outdoor monitoring or in areas where dust and particulate matter exists
- Easy to read LCD display provides immediate local alerts allowing corrective action to be taken quicker to eliminate the problem from becoming widespread
- Zero and span controls provides easy calibration checks and shorter installation time to get device running and monitoring

**APPLICATIONS**

- Dust collection
- Outdoor HVAC
- Roof-top equipment

MODEL CHART		
Model	Range	Max. Pressure
616W-2-LCD	0 to 6 in w.c.	10 psig
616W-3-LCD	0 to 10 in w.c.	10 psig
616W-4-LCD	0 to 20 in w.c.	20 psig
616W-5-LCD	0 to 40 in w.c.	20 psig
616W-6-LCD	0 to 100 in w.c.	15 psig
616W-7-LCD	0 to 200 in w.c.	45 psig
616W-20B-LCD	0 to $\pm 10$ in w.c.	10 psig
616W-3M-LCD	0 to 2.5 kPa	68.9 kPa

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

**SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Consult factory.

**Accuracy:**  $\pm 0.25\%$  FS @ 77°F (25°C), display accuracy  $\pm 0.5\%$ .

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

**Temperature Limits:** 14 to 185°F (-10 to 85°C).

**Pressure Limits:** See chart.

**Power Requirements:** 10 to 35 VDC (2-wire), 17 to 36 VDC, or isolated 21.6 to 33 VAC (3-wire).

**Output Signal:** 4 to 20 mA (2-wire), 0 to 5 VDC, or 0 to 10 VDC (3-wire).

**Zero and Span Adjustments:** Push buttons.

**Loop Resistance:** Current output: 0 to 1250  $\Omega$  max; Voltage output: Load resistance 1 k $\Omega$  (min).

**Current Consumption:** 40 mA (max).

**Electrical Connections:** 3-wire removable European style terminal block for 16 to 26 AWG.

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

**Agency Approvals:** CE.

**OPTIONS**

To order add suffix:	Description
-NIST	NIST traceable calibration certificate
<b>Example:</b> 616W-3-LCD-NIST	