

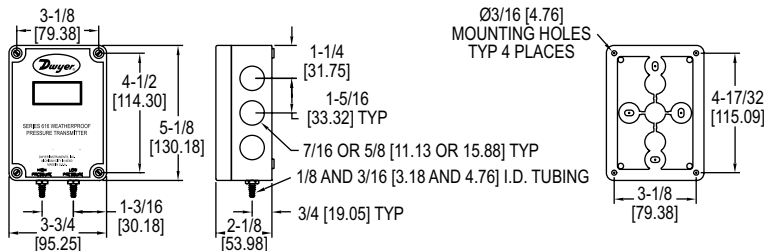
Dwyer

SERIES 616W



# DIFFERENTIAL PRESSURE TRANSMITTER

## NEMA 4X Enclosure, 0.25% Full-Scale Accuracy

**CALIBRATION SERVICES AVAILABLE**


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.

### BENEFITS/FEATURES

- 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	Model	Range	Max. Pressure
616W-2-LCD	0 to 6 in w.c.	4.5 psig	616W-6-LCD	0 to 100 in w.c.	25 psig
616W-3-LCD	0 to 10 in w.c.	4.5 psig	616W-20B-LCD	0 to $\pm 10$ in w.c.	4.5 psig
616W-4-LCD	0 to 20 in w.c.	6 psig	616W-3M-LCD	0 to 2.5 kPa	31.0 kPa
616W-5-LCD	0 to 40 in w.c.	25 psig			

**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:** -4 to 158°F (-20 to 70°C).

**Pressure Limits:** See chart.

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

**Output Signal:** 4-20 mA (2-wire), 0-5 VDC, or 0-10 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:** 21 mA max. continuous.

**Electrical Connections:** 4-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: 8.9 oz (253 g); With LCD: 9.5 oz (269 g).

**Compliance:** CE.

### OPTIONS

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

Process Tubing Options: See page 453 (Gage Tubing Accessories)