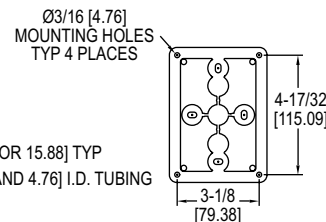
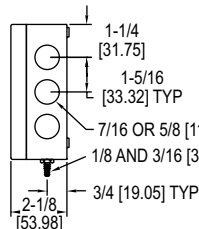
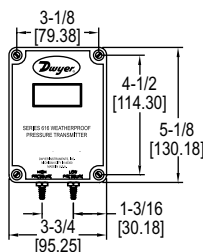


# DIFFERENTIAL PRESSURE TRANSMITTER

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 |
| Example: 616W-3-LCD-NIST |                                        |

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