

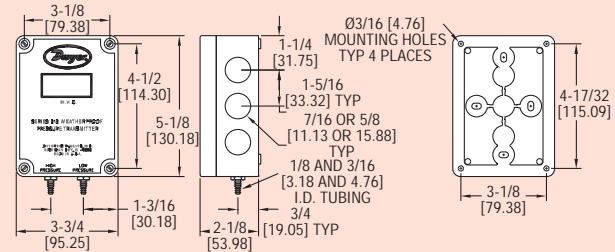


Series
616W

Differential Pressure Transmitter



NEMA 4X Enclosure, 0.25% F.S. Accuracy, Ranges from 0-1 in. w.c. to 0-100 psid



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. (If LCD is not needed, drop from model number).

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

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

Stability: $\pm 1\%$ F.S./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: $\pm 0.02\%$ F.S./°F (0.0012% F.S./°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 ohms maximum.

Current Consumption: DC; 38 mA maximum.

Electrical Connections: Screw-type terminal block.

Process Connections: Barbed, dual size to fit 1/8" and 3/16" (3.12 and 4.76 mm) I.D. 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.

| Model | Range | Max. Press. | Model | Range | Max. Press. | Model | Range | Max. Press. |
|-------------|---------------|-------------|-------------|-------------------|-------------|--------------|-----------------|-------------|
| 616W-00-LCD | 0-1 in.w.c. | 5 psig | 616W-7-LCD | 0-200 in.w.c. | 29 psig | 616W-10B-LCD | 5-0-5 in.w.c. | 5 psig |
| 616W-0-LCD | 0-2 in.w.c. | 5 psig | 616W-8-LCD | 0-10 psid | 58 psig | 616W-20B-LCD | 10-0-10 in.w.c. | 11 psig |
| 616W-1-LCD | 0-3 in.w.c. | 5 psig | 616W-9-LCD | 0-20 psid | 58 psig | 616W-0M-LCD | 0-500 Pa | 5 psig |
| 616W-2-LCD | 0-6 in.w.c. | 5 psig | 616W-10-LCD | 0-30 psid | 58 psig | 616W-1M-LCD | 0-750 Pa | 34.5 kPa |
| 616W-3-LCD | 0-10 in.w.c. | 5 psig | 616W-11-LCD | 0-50 psid | 150 psig | 616W-2M-LCD | 0-1.5 kPa | 34.5 kPa |
| 616W-4-LCD | 0-20 in.w.c. | 11 psig | 616W-12-LCD | 0-100 psid | 150 psig | 616W-3M-LCD | 0-2.5 kPa | 34.5 kPa |
| 616W-5-LCD | 0-40 in.w.c. | 11 psig | 616W-3B-LCD | 1.5-0-1.5 in.w.c. | 5 psig | 616W-4M-LCD | 0-5.0 kPa | 75.8 kPa |
| 616W-6-LCD | 0-100 in.w.c. | 29 psig | 616W-6B-LCD | 3-0-3 in.w.c. | 5 psig | 616W-5M-LCD | 0-25.0 kPa | 200 kPa |

NOTE: Units with "M" in the model number are metric units. Remove "-LCD" for models without display.