



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 No.	Range	Max. Press.	Model No.	Range	Max. Press.	Model No.	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.