



Series
616W

Differential Pressure Transmitter

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

Pressure



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.

MODELS

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.

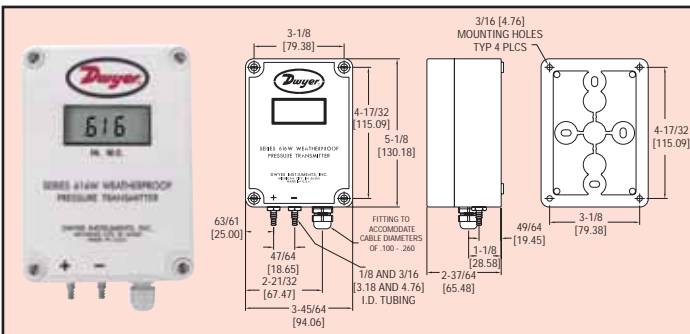


Series
616WL

Differential Pressure Transmitter

Low Ranges Down to 0.25" w.c. (60 Pa), NEMA 4X Housing

Pressure



The Series 616WL Differential Pressure Transmitter senses very low pressures of air and non-combustible, compatible gases and sends a standard 4-20 mA output signal. All models, including those featuring the 3 digit LCD digital read-out, are factory calibrated to specific ranges as listed in the chart below. Positive, negative and differential pressures can be measured within a full span accuracy of $\pm 0.50\%$. This weatherproof unit is enclosed in a polycarbonate case, designed to meet (IP66/NEMA 4X). Internal digital push button zero and span allow for quick and simple field calibration.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: $\pm 0.50\%$ 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 (0.036% F.S./°C).
Power Requirements: 12-30 VDC (2-wire).
Output Signal: 4 to 20 mA.
Zero and Span Adjustments: Digital, Push Button Adj.

Loop Resistance: DC; 0-900 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 17 oz (482 g); with LCD 18 oz (510 g).
Agency Approvals: CE.

MODELS

Model Number	Pressure Range	Maximum Pressure	Model Number	Pressure Range	Maximum Pressure
616WL-2	0-0.25 in. w.c.	2 psig	616WL-2-LCD	0-0.25 in. w.c.	2 psig
616WL-4	0-1 in. w.c.	4 psig	616WL-4-LCD	0-1 in. w.c.	4 psig
616WL-12	0.25-0-0.25 in. w.c.	2 psig	616WL-12-LCD	0.25-0-0.25 in. w.c.	2 psig
616WL-14	1-0-1 in. w.c.	4 psig	616WL-14-LCD	1-0-1 in. w.c.	4 psig
616WL-22	0-60 Pa	13.8 kPa	616WL-22-LCD	0-60 Pa	13.8 psig
616WL-32	60-0-60 Pa	13.8 kPa	616WL-32-LCD	60-0-60 Pa	13.8 psig
616WL-25	0-250 Pa	4 psig	616WL-25-LCD	0-250 Pa	4 psig
616WL-35	250-0-250 Pa	4 psig	616WL-35-LCD	250-0-250 Pa	4 psig