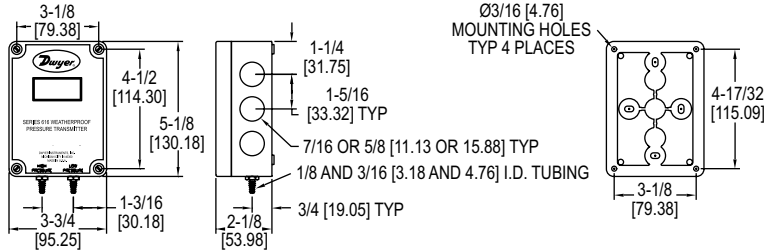


DIFFERENTIAL PRESSURE TRANSMITTER

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 ± 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

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 Ω max; Voltage output: Load resistance 1 k Ω (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.

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 ± 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.

OPTIONS	
To order add suffix:	Description
-NIST	NIST traceable calibration certificate
Example: 616W-3-LCD-NIST	

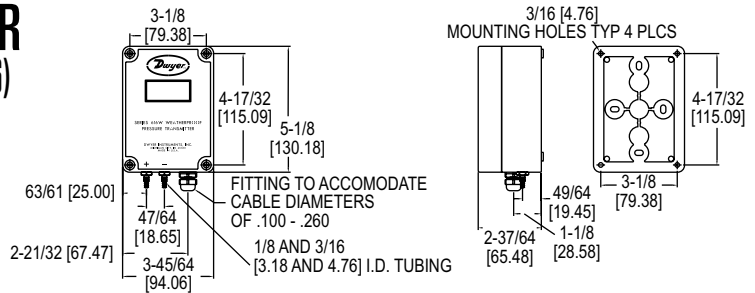
Process Tubing Options: See page 453 (Gage Tubing Accessories)

SERIES 616WL

DIFFERENTIAL PRESSURE TRANSMITTER

Low Ranges Down to 0.25 in. w.c. (60 Pa), NEMA 4X Housing (IP66)

CALIBRATION SERVICES AVAILABLE



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.

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
- High precision accuracy at low pressure ranges provides exceptional accuracy for insuring tight-control and minimizing costly out of specification conditions

APPLICATIONS

- Low pressure applications
- Dust collection
- Outdoor HVAC
- Roof-top equipment

MODEL CHART		
Model	Range	Max. Pressure
616WL-2-LCD	0 to 0.25 in w.c.	2 psig
616WL-4-LCD	0 to 1 in w.c.	4 psig
616WL-12-LCD	0 to ± 0.25 in w.c.	2 psig
616WL-14-LCD	0 to ± 1 in w.c.	4 psig
616WL-22-LCD	0 to 60 Pa	2 psig
616WL-32-LCD	0 to ± 60 Pa	2 psig
616WL-25-LCD	0 to 250 Pa	4 psig
616WL-35-LCD	0 to ± 250 Pa	4 psig

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: $\pm 0.50\%$ FS, display accuracy $\pm 0.5\%$.
Stability: $\pm 1\%$ FS/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: $\pm 0.02\%$ FS/°F (0.036% FS/°C).
Power Requirements: 12-30 VDC (2-wire).
Output Signal: 4-20 mA.

Zero and Span Adjustments: Digital, push-button adj.
Loop Resistance: DC; 0 to 900 Ω max.
Current Consumption: DC; 38 mA max.
Electrical Connections: Screw-type terminal block.
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: Vertical, consult factory for other position orientations.
Weight: Without LCD 17 oz (482 g); with LCD 18 oz (510 g).
Compliance: CE.

OPTIONS	
To order add suffix:	Description
-NIST	NIST traceable calibration certificate
Example: 616WL-4-LCD-NIST	

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