Differential Pressure Transmitters

Differerential Pressure Transmitter
NEMA 4X Enclosure, 0.25% FS Accuracy

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.

FEATURES/BENEFITS
• 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
• Low pressure applications

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Max. Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>616W-2-LCD</td>
<td>0 to 6 in w.c.</td>
<td>10 psig</td>
</tr>
<tr>
<td>616W-3-LCD</td>
<td>0 to 10 in w.c.</td>
<td>10 psig</td>
</tr>
<tr>
<td>616W-4-LCD</td>
<td>0 to 20 in w.c.</td>
<td>20 psig</td>
</tr>
<tr>
<td>616W-5-LCD</td>
<td>0 to 40 in w.c.</td>
<td>20 psig</td>
</tr>
<tr>
<td>616W-6-LCD</td>
<td>0 to 100 in w.c.</td>
<td>15 psig</td>
</tr>
<tr>
<td>616W-7-LCD</td>
<td>0 to 200 in w.c.</td>
<td>45 psig</td>
</tr>
<tr>
<td>616W-8-LCD</td>
<td>0 to 500 in w.c.</td>
<td>50 psig</td>
</tr>
<tr>
<td>616W-9-LCD</td>
<td>0 to ±60 Pa</td>
<td>60 Pa</td>
</tr>
<tr>
<td>616W-10-LCD</td>
<td>0 to ±1 in w.c.</td>
<td>1 in w.c.</td>
</tr>
<tr>
<td>616W-12-LCD</td>
<td>0 to ±10 in w.c.</td>
<td>10 psig</td>
</tr>
<tr>
<td>616W-16-LCD</td>
<td>0 to ±20 in w.c.</td>
<td>20 psig</td>
</tr>
<tr>
<td>616W-18-LCD</td>
<td>0 to ±30 in w.c.</td>
<td>30 psig</td>
</tr>
<tr>
<td>616W-20-LCD</td>
<td>0 to ±50 in w.c.</td>
<td>50 psig</td>
</tr>
<tr>
<td>616W-25-LCD</td>
<td>0 to ±75 in w.c.</td>
<td>75 psig</td>
</tr>
<tr>
<td>616W-30-LCD</td>
<td>0 to ±100 in w.c.</td>
<td>100 psig</td>
</tr>
</tbody>
</table>

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

Series 616WL
Differential Pressure Transmitter
Low Ranges Down to 0.25 in w.c. (60 Pa), NEMA 4X Housing (IP66)

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 ±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.

FEATURES/BENEFITS
• 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

OPTIONS
To order add suffix: Description
-NIST NIST traceable calibration certificate

Example: 616WL-4-LCD-NIST

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: ±0.25% FS @ 77°F (25°C), display accuracy ±0.5%.
Stability: ±1% FS/yr.
Temperature Limits: 14 to 185°F (-10 to 85°C).
Pressure Limits: See chart.
Power Requirements: 10-35 VDC (2-wire), 0-5 VDC or 0-10 VDC (3-wire).
Zero and Span Adjustments: Push-button.

Loop Resistance: Current output: 0 to 1250 Ohm max; Voltage output: Load resistance 1 kΩ (min).
Current Consumption: 40 mA (max).
Electrical Connections: 3-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 8.8 oz. (249 g); with LCD 9.6 oz (272 g).
Agency Approvals: CE.