Differential Pressure Transmitter

**Series 616W**

**Differential Pressure Transmitter**

NEMA 4X Enclosure, 0.25% Full Scale 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 (as shown above) allows local indication of pressure.

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### SPECIFICATIONS

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±0.25% FS, display accuracy ±0.5%.
- **Stability:** ±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:** ±0.02% FS/°F (0.0012% FS/°C).
- **Power Requirements:** 10-35 VDC (2-wire).
- **Output Signal:** 4 to 20 mA.
- **Agency Approvals:** CE.

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### Model and Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Max. Press</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>616W-2-LCD</td>
<td>0-6 in w.c.</td>
<td>5 psig</td>
<td>$316.50</td>
</tr>
<tr>
<td>616W-3-LCD</td>
<td>0-10 in w.c.</td>
<td>5 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-4-LCD</td>
<td>0-20 in w.c.</td>
<td>11 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-5-LCD</td>
<td>0-40 in w.c.</td>
<td>11 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-6-LCD</td>
<td>0-100 in w.c.</td>
<td>20 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-7-LCD</td>
<td>0-200 in w.c.</td>
<td>20 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-20B-LCD</td>
<td>10-100 in w.c.</td>
<td>11 psig</td>
<td>316.50</td>
</tr>
<tr>
<td>616W-3M-LCD</td>
<td>0-2.5 kPa</td>
<td>34.5 kPa</td>
<td>316.50</td>
</tr>
</tbody>
</table>

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### Note:
Units with “M” in the model number are metric units. See page 587 for process tubing options.

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**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 20.0%. 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:** ±0.50% FS, display accuracy ±0.5%.
- **Stability:** ±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:** ±0.02% FS/°F (0.0012% FS/°C).
- **Power Requirements:** 12-30 VDC (2-wire).
- **Output Signal:** 4 to 20 mA.
- **Agency Approvals:** CE.

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### Model and Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Range</th>
<th>Max. Press</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>616WL-2-LCD</td>
<td>0-0.25 in w.c.</td>
<td>2 psig</td>
<td>$501.50</td>
</tr>
<tr>
<td>616WL-4-LCD</td>
<td>0-1 in w.c.</td>
<td>4 psig</td>
<td>475.50</td>
</tr>
<tr>
<td>616WL-12-LCD</td>
<td>0.25-0.0.25 in w.c.</td>
<td>2 psig</td>
<td>501.50</td>
</tr>
<tr>
<td>616WL-14-LCD</td>
<td>1-0 in w.c.</td>
<td>4 psig</td>
<td>475.50</td>
</tr>
<tr>
<td>616WL-22-LCD</td>
<td>0-60 Pa</td>
<td>13.8 psig</td>
<td>501.50</td>
</tr>
<tr>
<td>616WL-32-LCD</td>
<td>0-60-0 Pa</td>
<td>13.8 psig</td>
<td>501.50</td>
</tr>
<tr>
<td>616WL-25-LCD</td>
<td>0-250 Pa</td>
<td>4 psig</td>
<td>475.50</td>
</tr>
<tr>
<td>616WL-35-LCD</td>
<td>250-0-250 Pa</td>
<td>4 psig</td>
<td>475.50</td>
</tr>
</tbody>
</table>

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### Note:
See page 587 for process tubing options.