Differential Pressure Transmitters

**Note:** Remove ‘-LCD’ from the end of the model number if not needing the display.

Versatile circuit design enables operation in 2-wire current loops. A wide range of models are available factory calibrated to specific ranges as listed in the chart below. The span and zero controls are for use when checking calibration. They are not intended for re-ranging to a significantly different span.

### Series 616D

**DIN Rail Differential Pressure Transmitter**

Mounts on 35 mm DIN Rail

The Series 616D Differential Pressure Transmitter senses the pressure of air and compatible gases and sends a standard 4-20 mA output signal. The 616D housing is specifically designed to mount on a 35 mm DIN rail in a panel. This mounting style allows for several units to be mounted closely together reducing required space. A wide range of models are available factory calibrated to specific ranges as listed in the chart below. The span and zero controls are for use when checking calibration. They are not intended for re-ranging to a significantly different span. Versatile circuit design enables operation in 2-wire current loops.

### Series DM-2000

**Differential Pressure Transmitter**

Same Size as Standard Magnehelic® Differential Pressure Gage

The Dwyer Series DM-2000 Differential Pressure Transmitter senses the pressure of air and compatible gases and sends a standard 4-20 mA output signal. The DM-2000 housing is specifically designed to mount in the same diameter cutout as a standard Magnehelic® gage. A wide range of models are available factory calibrated to specific ranges.

### Specifications

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±0.25% F.S. at 70°F.
- **Stability:** ±1% F.S./yr.
- **Temperature Limits:** 20 to 120°F (-6.7 to 48.9°C).
- **Pressure Limits:** See chart.
- **Thermal Effect:** ±0.02% F.S./°F (0.0012% F.S./°C).
- **Power Requirements:** 10-35 VDC (2-wire).

### Model Range

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>616D-1</td>
<td>0-3 in w.c.</td>
<td>2 psig</td>
<td>616D-10</td>
<td>0-30 psid</td>
<td>58 psig</td>
</tr>
<tr>
<td>616D-2</td>
<td>0-6 in w.c.</td>
<td>5 psig</td>
<td>616D-11</td>
<td>0-50 psid</td>
<td>150 psig</td>
</tr>
<tr>
<td>616D-3</td>
<td>0-10 in w.c.</td>
<td>5 psig</td>
<td>616D-12</td>
<td>0-100 psid</td>
<td>150 psig</td>
</tr>
<tr>
<td>616D-4</td>
<td>0-20 in w.c.</td>
<td>11 psig</td>
<td>616D-13</td>
<td>0-12 ft w.c.</td>
<td>29 psig</td>
</tr>
<tr>
<td>616D-5</td>
<td>0-40 in w.c.</td>
<td>11 psig</td>
<td>616D-14</td>
<td>0-20 ft w.c.</td>
<td>29 psig</td>
</tr>
<tr>
<td>616D-6</td>
<td>0-100 in w.c.</td>
<td>29 psig</td>
<td>616D-3B</td>
<td>1.5-0-1.5 in w.c.</td>
<td>2 psig</td>
</tr>
<tr>
<td>616D-7</td>
<td>0-200 in w.c.</td>
<td>29 psig</td>
<td>616D-6B</td>
<td>3-0-3 in w.c.</td>
<td>5 psig</td>
</tr>
<tr>
<td>616D-8</td>
<td>0-10 psid</td>
<td>29 psig</td>
<td>616D-10B</td>
<td>5-0-5 in w.c.</td>
<td>5 psig</td>
</tr>
<tr>
<td>616D-9</td>
<td>0-20 psid</td>
<td>58 psig</td>
<td>616D-20B</td>
<td>10-0-10 in w.c.</td>
<td>11 psig</td>
</tr>
</tbody>
</table>

### Output Signal

4 to 20 mA.

### Zero and Span Adjustments

Potentiometers for zero and span.

### Loop Resistance

DC: 0-1250 ohms max.

### Current Consumption

DC: 38 mA max.

### Electrical Connections

Screw-type terminal block.

### Process Connections

1/8" female NPT. Accessories included are 2 barbed fittings for 1/8" (3.12 mm) and 3/16" (4.77 mm) I.D. rubber or vinyl tubing.

### Mounting Orientation

Vertical, on a 1.378" (35 mm) DIN rail.

**Weight:** 4.8 oz (136 g).

### Specifications

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±1% F.S. at 70°F.
- **Stability:** ±1% F.S./yr.
- **Temperature Limits:** 20 to 120°F (-6.7 to 48.9°C).
- **Pressure Limits:** See chart.
- **Thermal Effect:** ±0.05% F.S./°F (0.009% F.S./°C).
- **Power Requirements:** 10-35 VDC (2-wire).

### Application

Differential pressure across filters.

### ACCESSORIES

- A-299, Surface Mounting Bracket
- A-300, Flat Flush Mounting Bracket
- A-480, Plastic Static Pressure Tip

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