**SERIES DX**

**WET/WET DIFFERENTIAL PRESSURE SWITCH**

NEMA 4X Enclosure, Low Differential Set Points

The Series DX Wet/Wet Differential Pressure Switch makes a contact output based on the differential between two pressure sources. Wetted materials of brass and fluoroelastomer are suitable for use with most gases and water-based solutions. The switch can be used for low differential pressure indication with set point on a decrease of pressure as low as 1 psid (0.07 bar). Differential set point ranges are available from 2.5 to 75 psid (0.17 to 5.17 bar) on increasing differential pressure and 1.0 to 67 psid (0.07 to 4.62 bar) on decreasing differential pressure. Unit features a high static pressure rating of 200 psig (13.8 bar). Weatherproof, UL type 4X, enclosure for dust laden, outdoor, or wash-down installation environments. Externally adjustable set point, integral mounting flange and a removable electrical terminal block for quick and easy installation.

**FEATURES/BENEFITS**

- Differential pressure switch that is suitable for most gas and water-based applications
- Easy installation
- Accurate switch triggers in high pressure applications
- Visible set point indicators simplify changes
- Bellows switch design provides sensitivity to pressure changes but resists vibration
- Compatible gases and liquids
- Humidity Limit: 80% (non-condensing)
- Pollution Degree: 2
- Environment: Intended for indoor and outdoor use
- Weight: 1 lb 3 oz (0.54 kg)

**APPLICATIONS**

- Indicating filter condition
- Proving flow through a chiller
- Proving flow through a heat pump or AC unit
- Weatherproof housing provides protection in the harsh, wet or dirty environments allows multiple uses in the most sophisticated designs
- Ensuring switch's long-service life
- External screw. Set point adjustment: Thumbscrew.
- Conduit: 1/2” hub; Explosion-proof: 3/4” female NPT.
- Process Connection: General purpose: 1/2” female NPT. Mounting Orientation: Vertical
- Environment: Intended for indoor and outdoor use
- Weight: General purpose: 5 lb (2.3 kg).

**SPECIFICATIONS**

- Service: Compatible gases and liquids
- Wetted Materials: Connection: Brass; Diaphragm: Fluoroelastomer
- Temperature Limits: 30 to 140°F (-1 to 60°C)
- Pressure Limits: 200 psig (13.8 bar). Continuous single side only pressure should not exceed 1.25 x full differential range.
- Enclosure Rating: Weatherproof UL type 4X (IP65)
- Repeatability: ±2% of full range

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Adjustable Differential Range (on increase) [psid (bar)]</th>
<th>Fixed Deadband [psid (bar)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low Set Point</td>
<td>High Set Point</td>
</tr>
<tr>
<td>DXW-11-153-1</td>
<td>2.5 to 10 (0.17 to 0.69)</td>
<td>1.5 (0.10)</td>
</tr>
<tr>
<td>DXW-11-153-2</td>
<td>10 to 25 (0.69 to 1.72)</td>
<td>2.5 (0.17)</td>
</tr>
<tr>
<td>DXW-11-153-3</td>
<td>25 to 50 (1.72 to 3.45)</td>
<td>3.5 (0.24)</td>
</tr>
<tr>
<td>DXW-11-153-4</td>
<td>50 to 75 (3.46 to 5.17)</td>
<td>4.0 (0.24)</td>
</tr>
</tbody>
</table>

**OPTIONS**

- To order add suffix: Description
- - PRESET Preset unit

USA: California Proposition 65

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**SERIES DP | MERCOID® BY DWYER**

**DOUBLE BELLOWS DIFFERENTIAL PRESSURE SWITCH**

Visible Setpoints, Adjustable or Fixed Deadband, High Pressure Ranges

Two opposing bellows combine maximum sensitivity and vibration resistance at a moderate cost in the Series DP Double Bellows Differential Pressure Switch. Both set and reset points are easily adjustable through non-intersecting, externally accessible controls. Visible setpoint indicators simplify changes. SPD7 snap action switch, 316 stainless steel or brass bellows, flanged steel housing. Rated pressures to 600 psig.

**FEATURES/BENEFITS**

- Bellows switch design provides sensitivity to pressure changes but resists vibration preventing out of range switching
- External access to set and reset controls makes for easy adjustments
- Visible set point indicators simplify changes

**APPLICATIONS**

- Accurate switch triggers in high pressure applications

**SPECIFICATIONS**

- Wetted Materials: Brass on ranges 61, 62, 63 or 316 SS on ranges 62E, 64E, 65E
- Temperature Limits: -10 to 180°F (-23 to 82°C)
- Pressure Limit: Maximum pressure of the operating range.
- Enclosure Rating: General purpose. Weatherproof or explosion-proof optional
- Switch Type: Snap switch. (Contact factory for mercury switch)
- Electrical Rating: See model chart

**OPTIONS**

- To order add suffix: Description
- W Weatherproof enclosure
- E Explosion-proof enclosure

USA: California Proposition 65

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