SERIES DX

Differential Pressure Switches

The SERIES DX is a differential pressure switch that makes a contact output based on the differential between two pressure sources. Wetted materials of brass and fluoro-elastomer 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
• Removable terminal block reduces installation time
• Weatherproof housing provides protection in the harsh, wet or dirty environments
• Visible set point indicators simplify changes
• External access to set and rest controls makes for easy adjustments
• Bellows switch design provides sensitivity to pressure changes but resists vibration

APPLICATIONS
• Indicating filter differential pressure
• Proving flow through a chiller
• Proving flow through a pump
• Proving flow indicator monitoring

OPTIONS
To order add suffix: Description
- PRESET Preset unit

Example: DXW-11-153-1-PRESET

USA: California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SERIES DP | MERCOID® BY DWYER

DOUBLE BELLOWS DIFFERENTIAL PRESSURE SWITCHES

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 differential pressure switches. Both set and reset points are easily adjustable through non-interactive, externally accessible controls. Visible setpoint indicators simplify changes. SPDT 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 rest controls makes for easy adjustments
• Visible set point indicators simplify changes

APPLICATIONS
• Accurate switch triggers in high pressure applications

MODEL CHART

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Brass</td>
<td>0-10 (0.7)</td>
<td>50 (3.5)</td>
<td>1.5 (10)</td>
<td>Snap Action Switch</td>
<td>Snap Action Switch</td>
</tr>
<tr>
<td></td>
<td>0-20 (1.4)</td>
<td>100 (6.9)</td>
<td>2.5 (17)</td>
<td>DP - 7033-153-61</td>
<td>DP - 7033-153-62</td>
</tr>
<tr>
<td></td>
<td>0-30 (2.1)</td>
<td>150 (10)</td>
<td>3.0 (21)</td>
<td>DP - 7033-153-63</td>
<td>DP - 7033-153-64</td>
</tr>
<tr>
<td></td>
<td>0-60 (4.1)</td>
<td>200 (13.8)</td>
<td>4.0 (31)</td>
<td>DP - 7033-153-65</td>
<td>DP - 7033-153-66</td>
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</tbody>
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USA: California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

WET/WET DIFFERENTIAL PRESSURE SWITCH

NEMA 4X Enclosure, Low Differential Set Points

The SERIES DP is a differential pressure switch with a contact output based on the differential between two pressure sources. Wetted materials of brass, and fluoro-elastomer 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). 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
• Removable terminal block reduces installation time
• Weatherproof housing provides protection in the harsh, wet or dirty environments

APPLICATIONS
• Indicating filter differential pressure
• Proving flow through a chiller
• Proving flow through a pump
• Proving flow indicator monitoring

OPTIONS
To order add suffix: Description
- V Visible
- D Fixed Deadband
- E Snap Action Switch

Example: DPA - 7033-153-61

USA: California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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.
Switch Type: SPDT snap switch.
Electrical Rating: 5 A @ 125/250 VAC. 5 A res. @ 30 VDC (≈).
Electrical Connection: Removable terminal block.

Conduit Connection: 0.871” diameter hole for 1/2˝ conduit fitting.
Process Connection: 1/4˝ NPT female.
Mounting Orientation: Ports on horizontal plane, ±10°.
Set Point Adjustment: External screw. Housing Materials: Body: Aluminum; Housing: Polycarbonate; Cover: 300 SS.
Vibration and Shock: Set point repeats after 25 Gs, 5 to 500 Hz. Set point repeats after a 15 Gs, 10 millisecond duration.
Humidity Limit: 80% (non-condensing).
Pollution Degree: 2.
Environment: Intended for indoor and outdoor use.
Weight: 1 lb to 3 oz (0.54 kg).
Agency Approvals: CE, cULus.