The Series DX is a differential pressure switch that makes a contact output based on the difference 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) for higher static pressure applications. Standard is a weatherproof, UL type 4X, enclosure for dust laden, outdoor, or wash-down installation environments. Series DX incorporates an externally adjustable set point, integral mounting flange and a removable electrical terminal block for quick and easy installation. The DX uses opposing diaphragms to sense the high and low pressure with a pivot mechanism that transfers the difference of the two pressures to the SPDT switch.

Series DX, Differential Pressure Switch

<table>
<thead>
<tr>
<th>Model</th>
<th>Adjustable Differential Range (on increase)</th>
<th>Fixed Deadband</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXW-11-153-1</td>
<td>2.5 to 10 (0.17 to 0.69)</td>
<td></td>
</tr>
<tr>
<td>DXW-11-153-2</td>
<td>10 to 25 (0.69 to 1.72)</td>
<td></td>
</tr>
<tr>
<td>DXW-11-153-3</td>
<td>25 to 50 (1.72 to 3.45)</td>
<td></td>
</tr>
<tr>
<td>DXW-11-153-4</td>
<td>50 to 75 (3.46 to 5.17)</td>
<td></td>
</tr>
</tbody>
</table>

Note: Set points on decrease will be the range minus the deadband.

Monitor and Record low differential pressures and temperature with the Model DL7 Differential Pressure Data Logger. Unit includes an on-board thermistor for ambient temperature measurement. Sampling rates are user selectable from 0.04 s to 8 hrs with First-in-first-out or Fill-then-stop sampling options. Loggers can store up to 21,500 readings and operate totally independently from any external power supply with built-in lithium battery. Use Model DL200 Windows® software (sold separately) to quickly program the logger or upload data to a computer. The Series DL7 logger is ideal for monitoring air duct velocity, testing and balancing HVAC systems, or verifying room pressure.

Series DL7, Differential Pressure Data Logger

Also Measures and Logs Temperature, Self-Powered, 2-Channel, Compact

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL70</td>
<td>±0.5 in w.c. (1.2 mbar)</td>
</tr>
<tr>
<td>DL71</td>
<td>±1 in w.c. (2.5 mbar)</td>
</tr>
<tr>
<td>DL72</td>
<td>±2 in w.c. (5.0 mbar)</td>
</tr>
<tr>
<td>DL75</td>
<td>±5 in w.c. (12.4 mbar)</td>
</tr>
<tr>
<td>DL710</td>
<td>±10 in w.c. (24.9 mbar)</td>
</tr>
</tbody>
</table>

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).
- Continous single side only pressure should not exceed 1.25 x full differential range.
- Accuracy: ±0.1 (5˝ and 10˝ range).
- Thermal Accuracy: ±0.5% FS.
- Clock Accuracy: ±2 s/day plus one 15 Gs, 10 ms sample.
- Hysteresis and Repeatability: ±0.05% FS.
- Drift: ±0.5% FS/yr.
- Sampling Methods: Continuous (first-in, first-out not available from 40 ms to 8 s), stop when full (fill-then-stop), or delayed start.
- Process Connection: 1/4” NPT female.
- Mounting Orientation: Ports on horizontal plane, ±10°.
- Set Point Adjustment: External screw.
- Housing Materials: Body: Aluminum; Housing: Poly carbonate; Cover: 300 SS.
- Vibration and Shock: Set point repeats after 2.5 Gs, 5 to 50 Hz. Set point repeats after a 15 Gs, 10 millisecond duration.
- Altitude Limit: 6560 ft (2000 m).
- Humidity Limit: 80% (non-condensing).
- Pollution Degree: 2.
- Environment: Intended for indoor and outdoor use.
- Weight: 1 lb 3 oz (0.54 kg).
- Agency Approvals: CE, cUL, UL.

Sampled Rates: Selectable from 0.04 s to 8 hrs.
- Ambient Operating Temperature/RH: -40 to 158°F (-40 to 70°C), 0 to 95% RH, non-condensing.
- Connection: Two 1/8” ID permanent protective tubing.
- Computer Requirements: IBM compatible 386 or above and Windows® 3.1 or later with 2 MB RAM and 2 MB hard drive disk space, one serial port.
- Service: Dry air and noncorrosive gases.
- Max. Pressure Rating: 4X rated pressure.
- Power Requirements: 3.6 V TL5134 lithium metal battery, internal, factory replaceable.
- Power Consumption: 5-10 µA.
- Housing Material: Polyphenylene ether and polyisotere PPE & PS.
- Weight: 4 oz (110 g).
- Agency Approvals: CE.

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- DL200, Windows® Software and Connecting Cable

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