**Series PDPS**

Compact Economic Differential Pressure Switch

Low Pressures down to 0.07 in w.c.

The Series PDPS’s large diameter diaphragm and snap action switch make it dependable and ideal for OEM applications. The Series PDPS Pressure Switches are available for pressure, vacuum, and differential applications and are factory preset for pressures from 0.07” of w.c. to 1.0” of w.c. with full-scale repeatability of ±0.02” of w.c. Other features of the PDPS pressure switch include standard multi-barb port connections, inherent mounting and quick disconnect terminals, which make the Series PDPS perfect for many OEM applications.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pressure Range</th>
<th>Switch Direction</th>
<th>Factory Preset Set Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.07 to 0.14” w.c.</td>
<td>I - Activate on Increase</td>
<td>Example: 007 for 0.07” w.c.</td>
</tr>
<tr>
<td>2</td>
<td>0.14 to 0.32” w.c.</td>
<td>D - Activate on Decrease</td>
<td>or 100 for 1” w.c.</td>
</tr>
<tr>
<td>3</td>
<td>0.32 to 0.64” w.c.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.64 to 1.0” w.c.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Series 1700**

Low Differential Pressure Switches Designed for OEM Products


**Applications**
- High efficiency furnaces
- Duct pressure monitor
- Laboratory fume hoods
- Monitor air filter condition
- Engine diagnostic equipment

**Specifications**
- Service: Air and compatible gases.
- Temperature Limits: -40 to 190°F (-40 to 88°C).
- Operating Pressure: 0.07 in w.c. to 1.0 in w.c.
- Repeatability: ±0.02” of w.c.
- Burst Pressure: 3.5 psi (0.241 bar).
- Proof Pressure: 1.0 psi (0.069 bar).
- Switch Type: Conventional snap action switch.

**Electrical Rating:**
- 5 Amps, 125, 250 VAC.
- Process Connections: Multi-barb port connections for 1/4” and 3/8” IO tubing.
- Mounting Orientation: Snap action switch is vertically mounted with diaphragm in a vertical position unless customer has specified otherwise.
- Set Point Adjustment: Set point adjusted at factory.
- Weight: 0.7 oz (19.65 g).

**Series 1700 Differential Pressure Switches**

For use with air and other non-combustible, non-corrosive gases, switches are UL and CSA recognized. Two models are offered with field adjustable ranges from 0.07 to 0.55 and 0.50 to 7.5 in w.c. Units are rated for 2 PSIG maximum system pressure, temperature limit is 190°F and weight is only 4 oz.

**Applications**
- High efficiency furnaces
- Duct pressure monitor
- Laboratory fume hoods
- Monitor air filter condition
- Engine diagnostic equipment

**Specifications**
- Service: Compatible non-combustible gases.
- Wetted Materials: Consult factory.
- Temperature Limit: 190°F (88°C).
- Pressure Limit: 2 psig (13.79 kPa).
- Switch Type: SPDT.
- Electrical Rating: 5 amps, 125, 250, 277 VAC, 1/10 HP 250 VAC, 150 VA.
- Consult factory for low current applications.

**Electrical Connections:** (3) 1/4” quick connect.
- Process Connections: Dual size for 1/8” and 3/16” ID vinyl or rubber tubing.
- Mounting Orientation: Diaphragm vertical.
- Set Point Adjustment: External slotted head screw.
- Housing: Glass filled PBT (polybutylene terephthalate).
- Weight: 0.4 oz (11.34 g).
- Agency Approvals: CSA, RoHS, US, UR.

**Operating Ranges and Deadbands**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range, in w.c. (mm w.c.)</th>
<th>At Minimum Set Point</th>
<th>Approximate Dead Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>1710-0</td>
<td>0.15 - 0.35 (3.81 - 8.90)</td>
<td>0.10 (.77)</td>
<td>0.20 (.13)</td>
</tr>
<tr>
<td>1710-5</td>
<td>0.50 - 7.5 (12.71 - 190.5)</td>
<td>0.10 (2.55)</td>
<td>0.50 (12.71)</td>
</tr>
</tbody>
</table>

**Note:** All purchases must be of 25 units or more.