Low Differential Pressure Switches for General Industrial Service

Set Points from 0.07 in to 85 in w.c. Repetitive Accuracy within 2%

**Specifications**
- **Service**: Air and non-combustible, compatible gases.
- **Wetted Materials**: Consult factory. Temperature Limits: -30 to 180°F (-34 to 82.2°C). 1823-00, -20 to 180°F (-28.9 to 82.2°C).
- **Pressure Limits**: 10 psig (68.95 kPa) continuous, 25 psig (172.4 kPa) surge.
- **Switch Type**: Single-pole double-throw (SPDT).
- **Repeatability**: ±2%.
- **Electrical Rating**: 15 A @ 120-480 VAC, 1/4 HP @ 250 VAC, 60 Hz. Derate to 10 A for operation at high cycle rates.

**Operation**
- **serie 1823 switches**

**Operating Ranges & Deadbands**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating Range, in w.c.</th>
<th>Approximate Deadband At Min.</th>
<th>At Max.</th>
<th>Set Point</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1823-00</td>
<td>0.07 to 0.22</td>
<td>0.05</td>
<td>0.05</td>
<td>$65.00</td>
<td></td>
</tr>
<tr>
<td>1823-0</td>
<td>0.15 to 0.5</td>
<td>0.06</td>
<td>0.06</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-1</td>
<td>0.3 to 1.0</td>
<td>0.08</td>
<td>0.08</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-2</td>
<td>0.5 to 2.0</td>
<td>0.10</td>
<td>0.12</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-5</td>
<td>1.5 to 5.0</td>
<td>0.14</td>
<td>0.28</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-10</td>
<td>2.0 to 10.0</td>
<td>0.18</td>
<td>0.45</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-20</td>
<td>5 to 22</td>
<td>0.35</td>
<td>0.70</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-40</td>
<td>5 to 44</td>
<td>0.50</td>
<td>1.10</td>
<td>62.00</td>
<td></td>
</tr>
<tr>
<td>1823-90</td>
<td>9 to 85</td>
<td>1.30</td>
<td>3.0</td>
<td>62.00</td>
<td></td>
</tr>
</tbody>
</table>

**Option**
- **MIL Environmental Construction** — Unlisted Model 1820 can be furnished with a special sealed snap switch for protection against high humidity, fungus and/or military applications. Similar to Model 1823 except deadband is slightly greater and some lower setpoints may not be possible. To order, add suffix -MIL. Example: 1820-2-MIL...

**Accessories**
- **A-389 Mounting Bracket** is 16 ga. steel, zinc plated and dichromate dipped for corrosion resistance. Provides rugged, permanent mounting and speeds installation...
- **A-489, 4' Straight Static Pressure Tip with Flange**...
- **A-491, 6' Straight Static Pressure Tip with Flange**...
- **A-493, 8' Straight Static Pressure Tip with Flange**...
- **A-302F-A, 303 SS Static Pressure Tip with mounting flange**...
- **A-302F-B, 303 SS Static Pressure Tip with mounting flange**...

See page 587 for process tubing options.

**Weatherproof Housing**
- 16 ga. steel enclosure with gasketed cover (NEMA 4, IP66) for wet or oily conditions. Withstands 200 hour salt spray test. Wt. 5-1/2 lbs. (2.5 kg). Switch must be factory installed. Change 1823 base number to 1824 and add -WP suffix.

**Explosion-Proof Housing**
- Cast iron base with aluminum cover. Rated Class I, Div. 1 & 2, Group D; Class II, Div. 1 & 2, Groups E, F, G; Class III and NEMA 7 CD, 9 EFG. Wt. 7-1/2 lbs (3.4 kg). Switch must be factory installed. Change base number to 1824 and add -EXPL suffix.

**Set Point Adjustment**
- Screw type inside mounting spud.

**Agency Approvals**
- CE, CSA, FM, UL.

**Agency Approvals**
- Optional-EXPL explosion-proof enclosure does not possess any agency approvals.

**Weight**
- 1 lb, 5 oz (595 g).

**Electrical Connections**
- 3 screw type, common, normally open and normally closed.