**Differential Pressure Switches**

**PRESSURE**

**• Damper positioning**  **• Duct air control**

**• Sealed diaphragm provides leak-proof construction for high accuracy and precision with the ability to match specific application needs**

**• Single or dual action switches support consistent designs with similar models, but for its own actuation pressure. Both units have diaphragm sealed motion take outs required. It can be set to open or close two independent electrical circuits, each preset and construction except that Model 1626 has a single electric switch and Model 1627 required. Model 1626 and 1627 differential pressure switches are identical in design combined with diaphragm sealed leak proof construction and mounting simplicity are only with air or compatible gases.**

**On the Series 1620 our old faithful switch design is still best where highest precision combined with diaphragm sealed leak proof construction and mounting simplicity are required. Model 1626 and 1627 differential pressure switches are identical in design and construction except that Model 1626 has a single electric switch and Model 1627 has dual electric switches. Model 1627 can therefore provide dual control when required. It can be set to open or close two independent electrical circuits, each preset for its own actuation pressure. Both units have diaphragm sealed motion take outs providing maximum protection against leakage.**

**FEATURES/BENEFITS**

- Single or dual action switches support consistent designs with similar models, but with the ability to match specific application needs
- Sealed diaphragm provides leak-proof construction for high accuracy and precision control

**APPLICATIONS**

- Damper positioning
- Duct air control

**SERIES 1620**

**LARGE DIAPHRAGM PRESSURE SWITCHES**

**Visual Set Point Adjustment in 5 Standard Ranges, 0.05 in to 12 in w.c. Repetitive Accuracy within ±1%**

**On the Series 1630 our highest precision conventional large diaphragm pressure switch provides maximum dependability. In addition, it incorporates a visible set point indicator for maximum convenience. UL and CSA listed, FM approved for general service. Electrical capability of 15 amps handles most small electrical loads. For use only with air or compatible gases.**

**FEATURES/BENEFITS**

- Visible set point indicator simplifies operation and trouble shooting
- Large diaphragm provides low range accuracy providing precise control
- Current loads of up to 15 amps supports most small electrical loads supporting a broader range of HVAC and Process applications without the need for additional relays and components

**APPLICATIONS**

- Damper positioning
- Air conditioning
- Duct air control
- Industrial service

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating Range in w.c.</th>
<th>Approximate Deadband</th>
<th>Adj. Diff. Between Set Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1626-1</td>
<td>.5 to 1.5</td>
<td>.05</td>
<td>.20</td>
</tr>
<tr>
<td>1626-5</td>
<td>5.0 to 6.0</td>
<td>.15</td>
<td>.35</td>
</tr>
<tr>
<td>1626-10</td>
<td>10.0 to 11.5</td>
<td>12.70</td>
<td>.65</td>
</tr>
<tr>
<td>1626-20</td>
<td>20.0 to 21.5</td>
<td>.50</td>
<td>1.20</td>
</tr>
<tr>
<td>1627-1</td>
<td>.5 to 1.5</td>
<td>.05</td>
<td>.20</td>
</tr>
<tr>
<td>1627-5</td>
<td>5.0 to 6.0</td>
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<td>1627-20</td>
<td>20.0 to 21.5</td>
<td>.50</td>
<td>1.20</td>
</tr>
</tbody>
</table>

**SERIES 1630**

**LARGE DIAPHRAGM PRESSURE SWITCHES**

**Visual Set Point Adjustment in 5 Standard Ranges, 0.05 in to 12 in w.c. Repetitive Accuracy within ±1%**

**On the Series 1635 our highest precision conventional large diaphragm pressure switch provides maximum dependability. In addition, it incorporates a visible set point indicator for maximum convenience. UL and CSA listed, FM approved for general service. Electrical capability of 15 amps handles most small electrical loads. For use only with air or compatible gases.**

**FEATURES/BENEFITS**

- Visible set point indicator simplifies operation and trouble shooting
- Large diaphragm provides low range accuracy providing precise control
- Current loads of up to 15 amps supports most small electrical loads supporting a broader range of HVAC and Process applications without the need for additional relays and components

**APPLICATIONS**

- Damper positioning
- Air conditioning
- Duct air control
- Industrial service

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating Range in w.c.</th>
<th>Approximate Deadband</th>
<th>Adj. Diff. Between Set Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1635-0</td>
<td>0.05 to 0.25</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>1635-1</td>
<td>0.20 to 1.0</td>
<td>0.04</td>
<td>0.06</td>
</tr>
<tr>
<td>1635-2</td>
<td>1.0 to 3.0</td>
<td>0.06</td>
<td>0.08</td>
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<tr>
<td>1635-5</td>
<td>2.0 to 6.0</td>
<td>0.07</td>
<td>0.25</td>
</tr>
<tr>
<td>1635-10</td>
<td>3.0 to 12</td>
<td>0.11</td>
<td>0.30</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.  
  Wetted Materials: Consult factory.  
  Temperature Limits: -30 to 130°F (-34.4 to 54.4°C).  
  Pressure Limits: Max. 50 in w.c. (12.44 kPa) continuous, 2 psig (13.79 kPa) surge.  
  Switch Type: SPDT.  
  Repeatability: ±1%.  
  Electrical Rating: 15 A @ 120-480 VAC, 60 Hz. Resistive, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz.

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

**Process Connections:** 1/8” female NPT.

**Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

**Set Point Adjustment:** Screw adjustment.

**Weight:** 3 lb 3 oz (1.50 kg).

**Agency Approvals:** CSA, FM, UL.

**ACCESSORIES**

**Model**  **Description**

A-489  **4" straight static pressure tip with flange**

A-302F-A  **303 SS static pressure tip with mounting flange; for 3/16" ID rubber or plastic tubing; 4" insertion depth; includes mounting screws**

**OPTIONS**

- To order, specify Model 1635-(Range No.)-MIL and required set point.

**SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.  
  Wetted Materials: Consult factory.  
  Temperature Limits: -30 to 130°F (-34.4 to 43.3°C).  
  Pressure Limits: 10 psig (68.95 kPa) continuous, 25 psig (172.4 kPa) surge.  
  Switch Type: SPDT.  
  Repeatability: ±1%.  
  Electrical Rating: 15 A @ 120-480 VAC, 60 Hz. Resistive 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz.

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

**Process Connections:** 1/8” female NPT.

**Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

**Set Point Adjustment:** Screw type with encased scale.

**Weight:** 3 lb 3 oz (1.50 kg).

**Agency Approvals:** CSA, FM, UL.

**ACCESSORIES**

**Model**  **Description**

A-489  **4" straight static pressure tip with flange**

A-302F-A  **303 SS static pressure tip with mounting flange; for 3/16" ID rubber or plastic tubing; 4" insertion depth; includes mounting screws**

**OPTIONS**

- MIL Environmental Construction

Unlisted Model 1635 can be furnished with a special sealed snap switch for protection against high humidity, fungus and/or military applications. Similar to Model 1638, deadband is slightly greater and some lower setpoints may not be available.

**Note:** To order, specify Model 1635-(Range No.)-MIL and required set point.