Dwyer Instruments, Inc.

GAS PRESSURE SWITCH

Compact, Low Cost, 1.4 to 20 in. w.c. Range

Reliable and convenient, the Series 1996 Gas Pressure Switch serves as a compact, low cost switch for gas fired furnaces and equipment. Pressure ranges for both models are ideal for high or low gas pressure interlock. Visible set point and on-off indicators add convenience in servicing. Use either NO or NC contacts on SPDT switch. Bottom connection has both 1/8" female and 1/4" male threads for pipe nipple or coupling. Top connection vents diaphragm chamber to outside or to furnace combustion chamber. Mount switch with diaphragm in a horizontal position and gas pressure connection at bottom. Used with natural, manufactured or LP gas.

FEATURES/BENEFITS

- Visible set point and on-off indicator simplifies operation and trouble shooting
- Compact size and low cost make it ideal for gas fired or gas equipment OEM applications
- Gas furnaces, natural, manufactured or LP gas applications

APPLICATIONS

- Compact size and low cost make it ideal for gas fired or gas equipment OEM
- Visible set point and on-off indicator simplifies operation and trouble shooting

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (in w.c.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996-3</td>
<td>1.4 to 5.5</td>
</tr>
<tr>
<td>1996-20</td>
<td>4-20</td>
</tr>
</tbody>
</table>

SERIES PG | MERCOID® BY DWYER

GAS PRESSURE/DIFFERENTIAL PRESSURE SWITCHES

External Adjustment, Visible Dial, Hermetically Sealed Snap or Mercury Switch

The Series PG Gas Pressure/Differential Pressure Switch has a large sensitive diaphragm and a reliable time proven mechanical design. Use for air and other compatible gases, they feature excellent ±1% of full-scale repeatability, clear easy-to-read scale and convenient external set point adjustment. Application flexibility is assured by a large variety of switching options including SPST, SPDT, DPST and DPDT; opening or closing on increasing pressure, vacuum or decreasing pressure. Mercury switches or hermetically sealed snap switches are available where high humidity would be a problem. If vibration or other factors preclude the use of mercury, snap switches can be provided. Standard housing is NEMA 1. Optional enclosures can be supplied for weather resistant and explosion-proof requirements.

FEATURES/BENEFITS

- Clear easy-to-read scale and external set point adjustment simplifies operation and trouble shooting
- Large diaphragm provides accuracy for precise control
- Multiple switching options meet the design of applications

APPLICATIONS

- Natural, manufactured or LP gas applications

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Max. Deadband</th>
<th>Switch Type</th>
<th>Model</th>
<th>Range</th>
<th>Max. Deadband</th>
<th>Switch Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-153-P1</td>
<td>1-30 in w.c.</td>
<td>1.9 in w.c. (0.47 kPa)</td>
<td>SPDT mercury</td>
<td>PG-7000-153-P1</td>
<td>1-30 in w.c.</td>
<td>4 in w.c. (1.0 kPa)</td>
<td>SPDT snap</td>
</tr>
<tr>
<td>PG-153-P2</td>
<td>0.5-5 psid (0.3-345 bar)</td>
<td>0.4 psid (0.38 bar)</td>
<td>SPDT mercury</td>
<td>PG-7000-153-P2</td>
<td>0.5-5 psid (0.3-345 bar)</td>
<td>0.5 psid (0.35 bar)</td>
<td>SPDT snap</td>
</tr>
<tr>
<td>PG-3-P1</td>
<td>1-30 in w.c.</td>
<td>1.3 in w.c. (0.32 kPa)</td>
<td>SPST mercury</td>
<td>PG-7000-153HS-P1</td>
<td>1-30 in w.c.</td>
<td>4 in w.c. (1.0 kPa)</td>
<td>SPDT hermetically sealed silver snap</td>
</tr>
<tr>
<td>PG-3-P2</td>
<td>0.5-5 psid (0.3-345 bar)</td>
<td>0.3 psid (0.21 kPa)</td>
<td>SPST mercury</td>
<td>PG-7000-153HG-P1</td>
<td>0.5-5 psid (0.3-345 bar)</td>
<td>0.5 psid (0.35 bar)</td>
<td>SPDT hermetically sealed gold snap</td>
</tr>
</tbody>
</table>

*SPST switches shown are close on increase of pressure.
For open on increase of pressure replace 3 in middle of model number with 2. Example: PG-2-P1.

SPECIFICATIONS

- Service: Air, natural & manufactured gas, LP gas.
- Wetted Materials: Consult factory.
- Temperature Limits: 32 to 110°F (0 to 43.3°C) -30 to 110°F (-34.4 to 43.3°C) for gas or dry air.
- Pressure Limits: 45 in w.c. (11.2 kPa) continuous; 10 psig (68.95 kPa) surge.
- Switch Type: SPDT.
- Electrical Rating: 15A @ 120-480 VAC, 60 Hz. Resistive 1/8 H.P. @ 125 VAC, 1/4 H.P. @ 250 VAC 60 Hz.
- Electrical Connections: 3 screw type, common, normally open, normally closed.
- Process Connections: 1/8" female NPT or 1/4" male NPT.
- Vent Connection: 1/8" female NPT.
- Mounting Orientation: Diaphragm in horizontal position. Consult factory for other position orientations.
- Set Point Adjustment: Screw type with visible indicator, inside conduit enclosure.
- Weight: 1 lb 2.3 oz (349 g).

Agency Approvals: CE, CSA, FM, UL.

© Explosion-Proof Alternative: See page 55 (Series 1950)
© Explosion-Proof Alternative: See page 55 (Series 1950G)

Process Tubing Options: See page 455 (Gage Tubing Accessories)

USA: California Proposition 65

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