Weatherproof and Explosion-Proof in One Economical Enclosure

Extremely rugged construction assures excellent reliability in chemical, petroleum and industrial plants. New design also provides burst pressure protection to 3000 psi (206 bar). The rolling diaphragm design maintains a constant effective area to minimize friction. This results in a minimum deadband as low as 0.5% of full-scale. Since many applications require higher deadbands, the SA1100 includes a separate adjustment when necessary. A 7/16˝ open-end wrench is the only tool required to change settings. Terminal blocks are provided for switch wiring connections and both internal and external ground screws are included. Standard housing is weatherproof to NEMA standards 1 through 4X and explosion-proof to NEMA 7, Class I, Groups B, C & D; NEMA 9, Class II, Groups E, F & G. Optional construction adds drain to meet NEMA NEMA 3R IP64.

APPLICATIONS
- Chemical, petroleum, food and drug processing industries
- Used indoor, outdoor or in explosion-proof area

**Series SA1100**

**Diaphragm Operated Pressure Switches**

Visible Setpoint, Adjustable Deadband, Hermetically Sealed Snap Switch, Weatherproof and Explosion-proof

**SPECIFICATIONS**

Wetted Materials: See pressure chamber and diaphragm material in model chart.

*Temperature Limits:* -30 to 180°F (-35 to 82°C) standard; ATEX compliant at Ambient Temperature: -4 to 167°F (-20 to 75°C); Process Temperature: -4 to 167°F (-20 to 75°C).

Pressure Limit: 1200 psig (82.6 bar).

*Enclosure Rating:* Weatherproof and Explosion-proof. Listed with UL and CSA for Class I, Groups B, C and D; Class II Groups E, F, and G. ATEX Compliant.*

Weatherproof UL Rated Type 4. Meets NEMA 4X and NEMA 7 & 9; aluminum.

Switch Type: SPDT or DPDT snap switch.

Electrical Rating: See model chart.

Electrical Connections: Screw terminal.

Conduit Connection: 1/2˝ female NPT.

Process Connection: 3/4˝ female NPT.

**PRESSURE LIMITATIONS**

-30 to 180°F (-35 to 82°C)

**Weatherproof and Explosion-proof**

Visible Setpoint, Adjustable Deadband, Hermetically Sealed Snap Switch,

Weatherproof and Explosion-proof

**SA1113E-A4-K2 Pressure Control; weatherproof NEMA 7, 9**

Series 4X, explosion-proof NEMA 7, 9; aluminum pressure chamber, Buna-N diaphragm and O-ring; 1/2 inch female NPT process connection; adjustable deadband, automatic reset; SPDT snap acting switch; adjustable range 30-500 psig.

**SA1111E-S5-K2**

Model Number

SA1111E-A4-K2 Pressure Control; weatherproof NEMA 7, 9; aluminum pressure chamber, Fluorocarbon diaphragm and O-ring; 1/2 inch female NPT process connection; adjustable deadband, automatic reset; SPDT snap acting switch; adjustable range 20-250 psig.

**Switch Deadband Chart**

<table>
<thead>
<tr>
<th>Number</th>
<th>Adjustable Operating Range</th>
<th>Approximate Minimum Deadband</th>
<th>Approximate Maximum Deadband</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>11</td>
<td>10-150</td>
<td>0.7-10</td>
<td>4.0</td>
</tr>
<tr>
<td>12</td>
<td>20-250</td>
<td>1.4-17.2</td>
<td>6.0</td>
</tr>
<tr>
<td>13</td>
<td>30-500</td>
<td>2.0-34</td>
<td>12</td>
</tr>
</tbody>
</table>

*Options that do not have ATEX.*