ATEX/IECEX APPROVED DIFFERENTIAL PRESSURE SWITCH

The ADPS in Flameproof ATEX/IECEx Enclosure

The Series AT-ADPS ATEX/IECEx Approved Differential Pressure Switch is designed for pressure, vacuum, and differential pressure applications in hazardous areas. The dual scaled adjustment knob in inches water column and Pascals allows changes to the switching pressure to be made without a pressure gage. The switch is available with settings from 0.08 in w.c. (20 Pa) up to 20 in w.c. (5000 Pa). The silicone diaphragm makes this series ideal for use with air and other noncombustible gases. Flameproof enclosures are available in aluminum and can include a glass window for viewing set point status on the adjustment knob.

**BENEFITS/FEATURES**

- Flameproof enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to set point status
- Increased response time at low pressures with LD port configuration

**APPLICATIONS**

- Hazardous area pressure switch
- Air filter and ventilator monitoring
- Ventilation duct monitoring
- Industrial cooling circuits
- Fan heater overheating protection
- Fire-protection damper control
- Heat exchanger frost protection

**PRESSURE LIMITS**

<table>
<thead>
<tr>
<th>Port/Valve</th>
<th>One Pressure Port Connected</th>
<th>Both Pressure Ports Connected</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS0</td>
<td>10 kPa</td>
<td>10 kPa</td>
</tr>
<tr>
<td>VL0</td>
<td>10 kPa</td>
<td>10 kPa</td>
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</tbody>
</table>

**SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Diaphragm material: Silicone; Housing material: Switch body: PA 6.6 and POM; Cover: Polystyrene; Brass or SS depending on pressure connections chosen.
- **Temperature Limits:** Process and ambient temperature from -4 to 185°F (-20 to 85°C) (Note: Product temperature limits differ from case).
- **Pressure Limits:** See pressure limit chart.
- **Switch Type:** SPDT.
- **Electrical Rating:** Standard: Max. 1.5 A @ 250 VAC, max. switching rate: 6 cycles/min.
- **Set Point Adjustment:** Hand knob on pressure switch inside case. (De-energize before opening case).
- **Mounting Orientation:** Vertically, with pressure connections pointing downwards.
- **Mechanical Working Life:** Over 10⁶ switching operations.
- **Enclosure Rating:** IP66.
- **Housing Material:** Aluminum.
- **Finishing:** Texture epoxy coat RAL7015.
- **Process Connections:** 1/8˝ NPT female brass (SS optional).
- **Electrical Connections:** Two 1/2˝ NPT female. Cable gland not included.
- **Weight:** 10.4 lb (4.7 kg).
- **ATEX Certificate:** EPT 19 ATEX 3192 X.