The Series 1950 Explosion-Proof Differential Pressure Switch combines the best features of the popular Dwyer® Series 1900 Pressure Switch with an integral explosion-proof and weatherproof housing, making it an exceptional value for either application. It is CE, UL and CSA listed, FM approved for use in Class I, Div 1, Groups C and D, Class II Groups E, F, and G and Class III hazardous atmospheres NEMA 7 & 9. Rain tight NEMA 3 (IP54), weatherproof features include a drain plug and O-ring seal in cover. Electrical connections are easily made by removing front cover. For convenience the set point adjustment screw is located on the outside of the housing. Twelve models offer set points from .03 to 20 in w.c. (0.0075 to 5 kPa) and from .5 to 60 psi (0.035 to 3.5 bar). The unit is very light and compact - about half the weight and bulk of other explosion-proof or weatherproof switches with separate enclosures.

FEATURES/BENEFITS
- Explosion-proof and weatherproof housing provides device protection for outdoor use or harsh environment operation
- External set point screw provides easy access without opening or disassembling enclosure
- Easily accessible electrical connection simplifies the installation

APPLICATIONS
- HVAC applications
- Process applications
- All-weather applications

DESCRIPTION

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Service</th>
<th>Air and non-combustible, compatible gases.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted Materials</td>
<td>Consult factory</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>-40 to 140°F (-40 to 60°C); 0 to 140°F (-17.8 to 60°C) for 1950P-8, 15, 25, and 50. -30 to 130°F (-34.4 to 54.4°C) for 1950-02</td>
</tr>
<tr>
<td>Pressure Limits (Continuous)</td>
<td>1950’s - 45 in w.c. (0.11 bar); 1950P’s - 35 psi (2.41 bar); 1950P-50 only - 70 psi (4.83 bar). Surge: 1950’s - 10 psi (0.69 bar), 1950P’s - 50 psi (3.45 bar), 1950P-50 only - 90 psi (6.21 bar).</td>
</tr>
<tr>
<td>Enclosure Rating</td>
<td>NEMA 3 (IP54), NEMA 7 &amp; 9.</td>
</tr>
<tr>
<td>Switch Type</td>
<td>Single-pole double-throw (SPDT).</td>
</tr>
<tr>
<td>Electrical Rating</td>
<td>15 A @, 125, 250, 480 VAC, 60 Hz. Resistive 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz.</td>
</tr>
<tr>
<td>Electrical Connections</td>
<td>3 screw type, common, normally open and normally closed.</td>
</tr>
<tr>
<td>Process Connections</td>
<td>1/8” female NPT.</td>
</tr>
<tr>
<td>Mounting Orientation</td>
<td>Diaphragm in vertical position. Consult factory for other position orientations.</td>
</tr>
<tr>
<td>Set Point Adjustment</td>
<td>Screw type on top of housing.</td>
</tr>
<tr>
<td>Weight</td>
<td>3.25 lb (1.5 kg); 1950-02 model, 4.4 lb (2 kg).</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>CE, CSA, FM, UL.</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

![Dimensions Diagram]

**WIRING DIAGRAM**

![Wiring Diagram]

**HOW TO ORDER**

Use the bold characters from the chart below to construct a product code.

**SWITCH TYPE**

- **1950**: Pressure switch - inches w.c.
- **1950P**: Pressure switch - PSID

**RANGE**

- **-02**: 0.03 - 0.10 in w.c.
- **-00**: 0.07 - 0.15 in w.c.
- **-0**: 0.15 - 0.5 in w.c.
- **-1**: 0.4 - 1.6 in w.c.
- **-5**: 1.4 - 5.5 in w.c.
- **-10**: 3.0 - 11.0 in w.c.
- **-20**: 4.0 - 20.0 in w.c.
- **-2**: 0.5 - 2.0 psid
- **-6**: 1.5 - 8.0 psid
- **-15**: 3.0 - 15.0 psid
- **-25**: 4.0 - 25.0 psid
- **-50**: 15.0 - 50.0 psid

**MICRO SWITCH TYPE**

- **-2**: 10G mica silver contact*
- **-6**: 10G phenolic gold contact
- **-M**: 10C phenolic silver contact

**OPTIONS**

- **-AT**: Aluminum tag
- **-PRESET**: Preset
- **-ST**: Stainless steel tag

**DIAPHRAGM MATERIAL**

- **B**: Buna-N
- **F**: Fluorsilicone*
- **N**: Neoprene
- **S**: Silicone
- **V**: Fluoroelastomer

*The 2F is standard

**ORDER ONLINE TODAY!**

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