EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Compact, Low Cost, Explosion-proof and Weatherproof

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 and 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 (3.35 to 4.05 bar). The unit is very light and compact - about half the weight and bulk of other explosion-proof or weatherproof switches with separate enclosures. CAUTION: For use only with air or compatible gases. Applications with hazardous atmospheres and a single positive pressure may require special venting.

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

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

SERIES 1950

EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Explosion-proof, Weatherproof, Compatible with Natural Gases

Series 1950G Explosion-Proof Differential Pressure Switch combines the best features of the popular Dwyer® Series 1900 Pressure Switch with the benefit of natural gas compatibility. Units are rain-tight for outdoor installations, and are UL listed for use in Class I, Groups A, B, C, & D; Class II, Groups E, F, & G and Class III atmospheres (IECEX Ex d IIB+H2 T6 (-40°C < Ta < +60°C) for 1950G-2, 15, 25, and 50 -30 to 130°F (-34.4 to 54.4°C) for 1950-02). Pressure Limits: Continuous: 1950's - 45 in w.c. (11.01 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-5 - 50 psi (3.45 bar), 1950P-50 only - 90 psi (6.21 bar). Enclosure Rating: NEMA 3 (IP54), NEMA 7 & 9. Switch Type: Single-pole double-throw (SPDT).

SPECIFICATIONS
- Service: Air and compatible combustible gases.
- Wetted Materials: Consult factory.
- Temperature Limits: 0 to 140°F (-17 to 60°C). Note: Set point drift may occur with ambient temperature changes.
- Pressure Limits: 45 in w.c. (11.2 kPa) continuous; 10 psig (68.95 kPa) surge. Enclosure Rating: NEMA 3 (IP54), NEMA 7 & 9.
- Switch Type: 1 Form C relay (SPDT).
- Power Requirements: 24 VDC ±10%.
- Electrical Connections: Internal terminal block.
- Process Connections: 1/8" female NPT.
- Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
- Set Point Adjustment: Screw type on top of housing.
- Weight: 2.25 lb (1.05 kg); 1950-02 model, weight 1.8 lb (2 kg).
- Agency Approvals: CE, CSA, FM, IECEx

MODEL CHART

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<tr>
<th>Model</th>
<th>Range, psid</th>
<th>Approximate Deadband</th>
<th>Approximate Deadband</th>
<th>Price</th>
<th>Model</th>
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<th>Approximate Deadband</th>
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<td>0.3</td>
<td>$214.00</td>
<td>1950P-50-2F</td>
<td>15 to 50</td>
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<td>$214.00</td>
<td>1950-1-2F</td>
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<td>1950G-2-2F</td>
<td>1.5 to 6</td>
<td>1.0</td>
<td>1.0</td>
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<td>0.75 to 11</td>
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</tbody>
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*P=PSID range models. Other ranges in w.c.

Caution: For use only with air or compatible gases. Applications with hazardous atmospheres and a single positive pressure may require special venting.

SERIES 1950P

EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Explosion-proof, Weatherproof, Compatible with Natural Gases

Twelve models offer set points from .03 to 20 in w.c. (0.0075 to 5 kPa) and from .5 to 60 psi (3.35 to 4.05 bar). The unit is very light and compact - about half the weight and bulk of other explosion-proof or weatherproof switches with separate enclosures. CAUTION: For use only with air or compatible gases. Applications with hazardous atmospheres and a single positive pressure may require special venting.