Series 1950G Explosion-proof Differential Pressure Switches

**Model 1950 Explosion-Proof Differential Pressure Switch** combines the best features of the popular Dwyer® Series 1900 Pressure Switches with an integral explosion-proof and weatherproof housing, making it an exceptional value for either application. It is 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), ATEX listed and 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 .001 to .20 in w.c. (7.5 to 50 kPa) and from .5 to 50 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 weather-proof switches with separate enclosures.

### Series 1950 Switches - Operating Ranges and Dead Bands

| Model  | Range, psid | Approximate Dead Band at | Min. Set Point | Max. Set Point | Price
|--------|-------------|--------------------------|---------------|---------------|-------|
| 1950-02-2F | 0.03 to 10 | .025 | .05 | $188.75
| 1950-02-F | 0.07 to 15 | .04 | .05 | $130.00
| 1950-2F | 15 to 50 | .10 | .15 | $130.00
| 1950-1F | 4 to 1.6 | .15 | .20 | $130.00
| 1950-5F | 1.4 to 5.5 | .30 | .40 | $130.00
| 1950-10-2F | 9 to 11 | .40 | .50 | $130.00
| 1950-20-2F | 12 to 20 | .40 | .50 | $130.00

**Electrical Connections:**
- 3 screw type, common, normally open and normally closed.
- 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: 3.25 lb (1.5 kg), 1950-02 model, 4.4 lb (2 kg).
- Agency Approvals: CE, UL, CSA, FM, ATEX, IECEx.

**Specifications**
- Service: Air and non-combustible, compatible gases.
- Wetted Materials: Contact factory.
- Temperature Limits: 0 to 140°F (-17 to 60°C).
- Note: Set point drift may occur with ambient temperature changes.
- Pressure Limits: 45 psig (316 kPa) continuous, 10 psig (68.95 kPa) surge.
- Enclosure Rating: NEMA 3 (IP54), NEMA 7 & 9.
- Switch Type: 1 Form C relay (SPDT).
- Electrical Rating: 10A, 120/240 VAC, 20 VDC. Resistive 50 mA, 125 VDC.

**Agency Approvals:**
- CE, UL, CSA, FM, ATEX, IECEx.

**Model 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, Directive 94/9/EC (ATEX) Compliant for II 2G Exd IIB + H2 T6che/12, CSA & FM approved for Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F & G and Class III atmospheres 1/2” female NPT. The 1950G is very compact, about half the weight and bulk of equivalent conventional explosion-proof switches. Easy access to the SPDT relay and power supply terminals is provided by removing the top plate of the aluminum housing. A supply voltage of 24 VDC, 120 or 240 VAC is required. A captive screw allows the cover to swing aside while remaining attached to the unit. Adjustment to the set point of the switch can be made without disassembly of the housing.

### Series 1950G Explosion-proof Differential Pressure Switch

**Specifications**
- Service: Air and compatible combustible gases.
- Wetted Materials: Contact factory.
- Temperature Limits: 0 to 140°F (-17 to 60°C).
- Note: Set point drift may occur with ambient temperature changes.
- Pressure Limits: 45 psig (316 kPa) continuous, 10 psig (68.95 kPa) surge.
- Enclosure Rating: NEMA 3 (IP54), NEMA 7 & 9.
- Switch Type: 1 Form C relay.
- Electrical Rating: 10A, 120/240 VAC, 20 VDC. Resistive 50 mA, 125 VDC.

**Agency Approvals:**
- CE, UL, CSA, FM, ATEX, IECEx.

**Price**
- $198.00

**UL, CSA, FM**
- Model 1950G-00-B-24-NA
- Model 1950G-00-B-24-A
- Model 1950G-00-B-24-EX

**ATEX**
- Model 1950G-00-B-24-A
- Model 1950G-00-B-24-EX

**Approximate Dead Band at**
- Model 1950G-00-B-24-NA
- Model 1950G-00-B-24-A
- Model 1950G-00-B-24-EX

**Weight**
- 2 lbs (0.91 kg)

**Agency Approvals:**
- CE, UL, CSA, FM, ATEX, IECEx.

**Call to Order:**
- U.S. Phone 219 879-8000
- U.K. Phone (+44) (0)1494-461707
- Australia Phone (+61) (0) 2 4272 2055