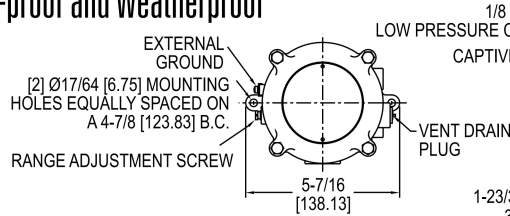


EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Compact, Low Cost, Explosion-proof and Weatherproof



NOTE: 1950-02: 7-3/4" [196.9] DIA. X 4-11/32" [110.3] DEPTH. FOR COMPLETE DIMENSIONS REQUEST DRAWING 28-700175-00 FROM OUR CUSTOMER SERVICE DEPARTMENT

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

BENEFITS/FEATURES

- 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

MODEL CHART

Model	Range, psid	Approximate Deadband		Model*	Range*	Approximate Deadband		Model	Range, in w.c.	Approximate Deadband	
		Min. Set Point	Max. Set Point			Min. Set Point	Max. Set Point			Min. Set Point	Max. Set Point
1950P-2-2F	0.5 to 2	0.3	0.3	1950P-50-2F	15 to 50	1.0	1.5	1950-1-2F	.4 to 1.6	.15	.20
1950P-8-2F	1.5 to 8	1.0	1.0	1950-00-2F	.07 to .15	.04	.05	1950-5-2F	1.4 to 5.5	.30	.40
1950P-15-2F	3 to 15	0.9	0.9	1950-0-2F	.15 to .50	.10	.15	1950-10-2F	3 to 11	.40	.50
1950P-25-2F	4 to 25	0.7	0.7					1950-20-2F	4 to 20	.40	.60

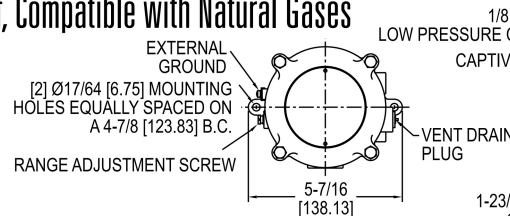
*P=PSID range models. Other ranges in w.c.

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

SERIES 1950G

EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Explosion-proof, Weatherproof, Compatible with Natural Gases



NOTE: 1950-02: 7-3/4" [196.9] DIA. X 4-11/32" [110.3] DEPTH. FOR COMPLETE DIMENSIONS REQUEST DRAWING 28-700175-00 FROM OUR CUSTOMER SERVICE DEPARTMENT

Series 1950G Explosion-Proof Differential Pressure Switch combines the best features of the popular Dwyer® Series 1950 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, and D; Class II, Groups E, F, and G and Class III atmospheres, Directive 2014/34/EU (ATEX) Compliant for CE 2813 Ex II 2G Ex db IIB+H2 T6, CSA and FM approved for Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G and Class III atmospheres. IECEx Ex db IIB+H2 T6 (-40°C<Ta<+60°C). 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.

BENEFITS/FEATURES

- Compatible with natural gas making it suitable for use in those applications
- External set point screw provides easy access that simplifies making adjustments without opening or disassembling enclosure
- Easily accessible electrical connection simplifies the installation

APPLICATIONS

- Natural gas applications
- Process applications
- All-weather applications

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 in w.c. (11.2 kPa) continuous; 10 psig (68.95 kPa) surge.
Enclosure Rating: NEMA 3 (IP54), NEMA 7 and 9.
Switch Type: 1 form C relay (SPDT).
Electrical Rating: 10 A, 120/240 VAC, 28 VDC. Resistive 50 mA, 125 VDC.

Power Requirements: 24 VDC ±10%. 120 or 240 VAC ±10% optional.
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 lb 15.7 oz (1.35 kg).
Agency Approvals: ATEX, CE, CSA, FM, IECEx, UL.

MODEL CHART

UL, CSA, FM Model	ATEX Model	Range in w.c.	Approximate Deadband	
			Min. Set Point	Max. Set Point
1950G-00-B-24-NA	1950G-00-B-24	.07 to .15	.04	.06
1950G-0-B-24-NA	1950G-0-B-24	.15 to .50	.06	.11
1950G-1-B-24-NA	1950G-1-B-24	.4 to 1.6	.11	.29
1950G-5-B-24-NA	1950G-5-B-24	1.4 to 5.5	.4	.9
1950G-10-B-24-NA	1950G-10-B-24	3 to 11	.9	1.8
1950G-20-B-24-NA	1950G-20-B-24	4 to 20	1.2	3.0

240 VAC Models: 1950G-XX-B-240-NA; 120 VAC Models: 1950G-XX-B-120-NA