COMPACT LOW DIFFERENTIAL PRESSURE SWITCHES
Set Points from 0.07 to 20 in w.c. Repetitive Accuracy within 3%

Our most popular Series 1900 Compact Low Differential Pressure Switches combine advanced design and precision construction to make these switches able to perform many of the tasks of larger, costlier units. Designed for air conditioning service, they also serve many fluidic, refrigeration, oven and dryer applications. Series 1900 switches have set points from 0.07 to 20 in w.c. (1.8 to 508 mm). Set point adjustment is easy with range screw located inside conduit enclosure. Internal location helps prevent tampering. UL, CE and CSA listed, and FM approved. For use with air or compatible gages.

FEATURES/BENEFITS
• Compact size and repeatability, provides a high-value switch for many industrial and OEM applications
• Wide range of models from 0.07 in w.c. to 20 in w.c. can meet exacting OEM specifications for a low pressure switch
• Range screw protected inside enclosure provides simplifies making adjustments but prevents tampering

APPLICATIONS
• Air conditioning refrigeration coil icing detection; defrost cycle initiation
• Clogged filter detection
• Variable air volume controller

SERIES 1900
A-489
A-302F-A
A-329
A-399
Model
ACCESSORIES
Duct pressure monitor kit; for use with standard or manual reset model switches; includes mounting flange, tubing and adapters
Street ell; brass adapter for applications requiring right angle connections; two required for differential pressures
303 SS static pressure tip with mounting flange; for 3/16” ID rubber or plastic tubing; 4” insertion depth; includes mounting screws
4” straight static pressure tip with flange

1/8 FEMALE NPT HIGH PRESS. CONNECTION
1/8 FEMALE NPT LOW PRESSURE CONNECTION

The Dwyer-engineered force-motion amplifier increases the leverage of diaphragm movement and results in a switch with excellent sensitivity and repeatability.

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Temperature Limits: -30 to 180°F (-34 to 82.2°C).
Pressure Limits: 45 in w.c. (11.2 kPa) continuous, 10 psig (68.95 kPa) surge.
Switch Type: Single-pole double-throw (SPDT).
Repeatability: ±3%.
Electrical Rating: 15 A @ 120-480 VAC, 60 Hz. Resistive 1/8 HP @ 250 VAC, 60 Hz. Derate to 10 A for operation at high cycle rates.
Electrical Connections: 3 screw type, common, normally open and normally closed.
Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
Set Point Adjustment: Screw type inside conduit enclosure.
Weight: 1 lb 4.5 oz (581 g).
Agency Approvals: CE, CSA, FM, and UL. Optional-EXPL explosion-proof enclosure does not possess any agency approvals.

OPTIONS
Weatherproof Housing
16 ga. steel enclosure with gasketed cover (NEMA 4, IP66) for wet or oily conditions. Withstands 200 hour salt spray test. Wt. 5-1/2 lb (2.5 kg). Switch must be factory installed.
Note: To order, change 1910 base number to 1911, add -WP suffix.
Example: 1911-1-WP

Explosion-Proof Housing
Cast iron base with brass cover. Rated Class I, Groups D; Class II, Div. 2, Groups E, F, G; Class III and NEMA 7, 9 NEMA 3. (7 lb). Switch must be factory installed.
Note: To order, change 1910 base number to 1911, add -EXPL suffix.
Example: 1911-1-EXPL

Manual Reset Option (Model 1900 MR)
Includes special snap switch which latches on pressure increase above the setpoint. Switch must be manually reset after pressure drops below the setpoint. Available on -1, -5, -10 or -20 ranges only. Option is not UL, CSA or FM listed. For use only in single positive pressure applications.
Note: To order, change 1910 base number to 1900, add -MR suffix.
Example: 1900-10-MR

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
USA: California Proposition 65