Compact Low Differential Pressure Switches



Our most popular series combines 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 fluidics, refrigeration, oven and dryer applications. For air and non combustible compatible gases, 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, CSA listed, and FM approved.

Series 1910 Switches
Operating Ranges, Deadbands

| Operating <br> Range, <br> Model | Approximate <br> Dead Band |  |  |
| :--- | :--- | :--- | :--- |
|  | At Min. <br> Set Point | At Max. <br> Set Point |  |
|  | 0.07 to 0.15 | 0.04 | 0.04 |
| $\mathbf{1 9 1 0 - 0}$ | 0.15 to 0.55 | 0.10 | 0.10 |
| $\mathbf{1 9 1 0 - 1}$ | 0.40 to 1.6 | 0.15 | 0.16 |
| 1910-5 | 1.40 to 5.5 | 0.30 | 0.30 |
| 1910-10 | 3.0 to 11.75 | 0.40 | 0.40 |
| $\mathbf{1 9 1 0 - 2 0}$ | 4.0 to 20.0 | 0.40 | 0.50 |



## OPTION

Manual reset 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. To order, change base model to 1900 and add MR suffix after range number. Example: 1900-10-MR. Available on $-1,-5,-10$ or -20 ranges only. Option is not UL, CSA or FM listed

Note: Manual Reset (MR) Option for use only in single positive pressure applications.

## ACCESSORIES

A-399, Duct Pressure Monitor Kit - For use with standard or manual reset model switches. Includes mounting flange, tubing and adapters.
A-329, Street Ell - Brass adapter for applications requiring right angle connections. Two required for differential pressures.
A-302F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16" ID rubber or plastic tubing. 4" insertion depth. Includes mounting screws
A-489, 4" Straight Static Pressure Tip with Flange

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory. Temperature Limits: -30 to $180^{\circ} \mathrm{F}(-34$ to $82.2^{\circ} \mathrm{C}$ ).
Pressure Limits: 45 in w.c. ( 11.2 kPa ) continuous, $10 \mathrm{psig}(68.95 \mathrm{kPa})$ surge. Switch Type: Single-pole double-throw (SPDT).
Repeatability: $\pm 3 \%$.
Electrical Rating: $15 \mathrm{~A} @ 120-480$
VAC, 60 Hz . Resistive 1/8 HP @125 VAC, $1 / 4 \mathrm{HP} @ 250$ VAC, 60 Hz .
Derate to 10 A for operation at high cycle rates.

Electrical Connections: 3 screw type, common, normally open and normally closed.
Process Connections: $1 / 8^{\prime \prime}$ female NPT.
Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
Set Point Adjustment: Screw type inside conduit enclosure.
Weight: 1lb, $4.5 \mathrm{oz}(581 \mathrm{~g})$.
Agency Approvals: CE , CSA, FM, and UL. Optional-EXPL explosion-proof enclosure does not possess any agency approvals.


## 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. Change model to 1911 and add -EXPL suffix.
Example: 1911-1-EXPL

