Differential Pressure Switches

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

Applications
- Prevents tampering
- Range screw protected inside enclosure provides simplifies making adjustments but
- Specifications for a low pressure switch
- Wide range of models from 0.07 in w.c. to 20 in w.c. can meet exacting OEM
- OEM applications
- Compact size and repeatability, provides a high-value switch for many industrial and
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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 fluidics, 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 service, they also serve many fluidics, refrigeration, oven and dryer applications.

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SERIES 1900

Series 1910 switch with conduit enclosure off. Shows electric switch and set point adjustment screw located on same side for easy installation.

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 @125 VAC, 1/4 HP @ 250 VAC, 60 Hz. Derate to 10 A for operation at high cycle rates.
- **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

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A-399</td>
<td>Duct pressure monitor kit; for use with standard or manual reset model switches; includes mounting flange, tubing and adapters</td>
</tr>
<tr>
<td>A-329</td>
<td>303 SS static pressure tip with mounting flange; for 3/16” ID rubber or plastic tubing; 4” insertion depth; includes mounting screws</td>
</tr>
<tr>
<td>A-409</td>
<td>4” straight static pressure tip with flange</td>
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</tbody>
</table>

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov