The Series PDPS large diameter diaphragm and snap action switch make it dependable and ideal for OEM applications. The Series PDPS Pressure Switches are available for pressure, vacuum, and differential applications and are factory preset for pressures from 0.07" to 1.0" of w.c. with full-scale repeatability of ±0.02" of w.c. Other features of the PDPS pressure switch include standard multi-barb port connections, inherent mounting and quick disconnect terminals, which make the Series PDPS perfect for many OEM applications.

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The switch housing is precision molded of a high strength glass filled PPO which has excellent dimensional and thermal stability. This unique combination of existing and new technologies enables Dwyer to offer a limit switch priced less than comparable units without sacrificing performance. Installation is fast and simple with twist and tighten mounting screw slots, 1/4" external slotted head screw.

For use with air and other non-combustible, non-corrosive gases, switches are UL and CSA recognized. Two models are offered with field adjustable ranges from .15 to .55 and .50 to 7.5 in w.c. Units are rated for 2 PSIG maximum system pressure, temperature limit is 190°F and weight is only 4 oz.

Series 1700 Differential Pressure Switches were specifically designed to satisfy the demands of high volume original equipment manufacturers for a tough, dependable limit switch at a very low price. The Model 1710 uses Dwyer’s simple, time-proven method of mechanically coupling a sensitive 3” diameter silicone rubber diaphragm to a versatile SPDT snap switch. The switch housing is precision molded of a high strength glass filled PPO which has excellent dimensional and thermal stability. This unique combination of existing and new technologies enables Dwyer to offer a limit switch priced less than comparable units without sacrificing performance. Installation is fast and simple with twist and tighten mounting screw slots, 1/4” quick connect electrical terminals and dual size barbed pressure ports for 1/4” and 3/8” ID vinyl or rubber tubing.

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### Specifications
- **Service:** Air and compatible gases.
- **Wetted Materials:** Polyphenylene oxide-styrene housing, fluorosilicone diaphragm, stainless steel spring.
- **Temperature Limits:** -40°F to 185°F (-40°C to 85°C).
- **Operating Pressure:** 0.07 in w.c. to 1.0 psig (0.069 bar).
- **Proof Pressure:** 1.0 psi (0.069 bar).
- **Repeatability:** ±0.02” of w.c.
- **Set Point Adjustment:** Otherwise.
- **SWITCH TYPE:** Conventional snap action switch.
- **PRESSURE LIMIT:** 2 psig (13.79 kPa).
- **Temperature Limit:** 190°F (88°C).
- **Agency Approvals:** UL.
- **Weight:** 4 oz (113.4 g).
- **Wetted Materials:** Air and compatible gases.
- **Service:** Laboratory use.

### Applications
- Engine diagnostic equipment
- Monitor air filter condition
- Laboratory fume hoods
- Duct pressure monitor
- High efficiency furnaces

### Table: Series 1700 Differential Pressure Switches

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (in w.c.)</th>
<th>Approximate Dead Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>1710-0</td>
<td>0.07 - 0.14</td>
<td>0.01</td>
</tr>
<tr>
<td>1710-1</td>
<td>0.14 - 0.32</td>
<td>0.02</td>
</tr>
<tr>
<td>1710-2</td>
<td>0.32 - 0.64</td>
<td>0.03</td>
</tr>
<tr>
<td>1710-3</td>
<td>0.64 - 1.0</td>
<td>0.04</td>
</tr>
</tbody>
</table>

### Note:
All purchases must be of 25 units or more.

### Call to Order
800-872-9141

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**Dwyer Instruments**

**Compact Economic Differential Pressure Switch**

Low Pressures down to 0.07 in w.c.

**Series 1700**

Low Differential Pressure Switches Designed for OEM Products

Competitively priced limit switch combines fast, simple installation with quality construction and materials. UL and C.S.A. recognized.

**SPECIFICATIONS**
- **Pressure Range:**
  - 1 - .07 to .14 in w.c.
  - 2 - .14 to .32 in w.c.
  - 3 - .32 to .64 in w.c.
  - 4 - .64 to 1.0 in w.c.
- **Set Point Adjustment:**
  - N.O.
  - N.C.
- **Mounting Orientation:**
  - Vertical.
- **Electrical Connections:**
  - 1/4” ID vinyl or rubber tubing.
- **Weight:** 4 oz (113.4 g).
- **Wetted Materials:** Glass filled PBT (polybutylene terephthalate).
- **Agency Approvals:** CSA, RoHS, UR.

**Electrical Rating:** 5 A @ 125/250 VAC.

**Process Connections:** Dual-barb port connections for 1/4” and 3/8” ID tubing.

**Mounting Orientation:** Dual-barb port connections for 1/4” and 3/8” ID tubing.

**Agency Approvals:** UL.

CALL TO ORDER | 800/872-9141

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