ATEX Approved 1910 Differential Pressure Switch

Series 1910 in Flame-Proof ATEX Enclosure

Our most popular Differential Pressure Switch is now available in a flame-proof ATEX approved package in the AT11910 Series. This pressure switch combines advanced design and precision construction to make these switches able to perform many of the tasks of larger, costlier units. For air and non-combustible compatible gases, the AT11910 Series 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 the switch enclosure. Series AT1190 ATEX enclosures are available in aluminum enclosures and ideal for low pressure, hazardous area applications.

Important notes for installation:
- Cables must be fitted through 1/2˝ NPT cable gland or ATEX conduit (not supplied with instrument).
- Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (IP65 with option OPV, overpressure relief valve).
- Open cover only after de-energizing instrument.
- **Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

### SPECIFICATIONS

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Consult factory.

**Temperature Limits:** -30 to 180°F (-34 to 82.2°C); Case: -58 to 140°F (-50 to 60°C)

**Pressure Limits:** 45 in w.c. (11.2 kPa) continuous, 10 psig (68.95 kPa) surge.

**Switch Type:** SPDT.

**Repeatability:** ±3% FS.

**Electrical Rating:** 15 A @ 120 to 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.

**Mounting Orientation:** Diaphragm in vertical position.

**Set Point Adjustment:** Screw type on pressure switch inside the enclosure accessible by hole with plug on housing. Setpoint regulation must be done with instrument de-energized. Follow instructions and safety warning to open cover.

**Enclosure Rating:** IP66. IP65 with option OPV, overpressure relief valve.

**Housing Material:** Aluminum.

**Finishing:** Texture epoxy coat RAL7038.

**Process Connections:** 1/8˝ NPT female brass ports (SS optional). In presence of acetylene it is necessary to use SS.

**Electrical Connections:** Two 1/2˝ NPT female. Cable gland not included.

**Weight:** 7.49 lb (3.4 kg).

**ATEX Approved Products from Comhas with ECN:** Nemko 10ATEX1096.

**Agency Approvals:** CE 0470 II2 GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

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**Series  AT11910**

<table>
<thead>
<tr>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>.07 to .15 in w.c. (17.5 to 37 Pa)</td>
<td>$660.00</td>
</tr>
<tr>
<td>.15 to .55 in w.c. (7.5 to 137 Pa)</td>
<td>-</td>
</tr>
<tr>
<td>.4 to 1.6 in w.c. (100 to 398 Pa)</td>
<td>-</td>
</tr>
<tr>
<td>1.4 to 5.5 in w.c. (348.5 to 1368 Pa)</td>
<td>-</td>
</tr>
<tr>
<td>3 to 11.75 in w.c. (747 to 2924 Pa)</td>
<td>-</td>
</tr>
<tr>
<td>4 to 20 in w.c. (996 to 4977 Pa)</td>
<td>-</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Housing Material</th>
<th>Cover</th>
<th>Process Connection</th>
<th>Overpressure Plug</th>
<th>Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>Blind</td>
<td>1/8˝ NPT female brass ports</td>
<td>Standard without overpressure relief valve</td>
<td>SS information label</td>
</tr>
<tr>
<td>-A</td>
<td>B</td>
<td>1/8˝ NPT female SS ports</td>
<td>Overpressure relief valve</td>
<td>-</td>
</tr>
</tbody>
</table>

- Items are subject to Schedule B discounts.

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"New Products"