ATEX Approved Photohelic® Switch/Gages with
24 VDC Power

3000MR or 3000MRS Series in Flame-Proof ATEX Enclosures

Using solid state technology, the Series AT23000MR and AT23000MRS ATEX Approved Photohelic® Switch/Gages combine the functions of a precise, highly repeatable differential pressure switch with a large easy-to-read analog pressure gage. Gage reading is unaffected by switch operation and will indicate accurately even if power is interrupted. AT23000MR series employ versatile electromechanical relays with low amperage ratings ideal for dry circuits. For applications requiring high cycle rates, choose AT23000MRS models with SPST (NO) solid state relays. Easy to adjust set point indicators are controlled by knobs located on the gage face (accessible opening case after de-energizing instrument). All models provide both low and high limit control. Compatible with air and other non-combustible, non-corrosive gases, they can be used in systems with pressures to 25 psig (1.72 bar). Flame-proof ATEX enclosures are available with glass window which allows viewing of set point needles and process pressure.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3000-0</td>
<td>0 to 0.25</td>
<td>.005</td>
<td>3000-0 Pa</td>
<td>0 to 60</td>
<td>2.0</td>
</tr>
<tr>
<td>3000-0</td>
<td>0 to 0.5</td>
<td>.01</td>
<td>3000-125Pa</td>
<td>0 to 125</td>
<td>5.0</td>
</tr>
<tr>
<td>3000-0</td>
<td>0 to 1.0</td>
<td>.02</td>
<td>3000-250Pa</td>
<td>0 to 250</td>
<td>5.0</td>
</tr>
<tr>
<td>3002</td>
<td>0 to 2.0</td>
<td>.05</td>
<td>3000-500Pa</td>
<td>0 to 500</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Example AT23001MR-XXX-AB1XT2

<table>
<thead>
<tr>
<th>Housing</th>
<th>AT23000MR or AT23000MRS</th>
<th>Price</th>
</tr>
</thead>
</table>

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

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

Dial Size: 4" (101.6 mm)

Set Point Adjustment: Adjustable knobs on face behind enclosure cover. Follow instructions and safety 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.

Housing Material: Aluminum.

Finishing: Texture epoxy coat RAL7035.

Accuracy: ±2% of FS at 70°F (21.1°C), ±3% on -0,-60 Pa and ±4% on -00 models.

Pressure Limits: -20 in Hg to 25 psig (-0.677 bar to 1.72 bar). MP option; 35 psig (2.41 bar), HP option; 80 psig (5.52 bar).

Temperature Limits: 20 to 120°F. (-6.7 to 48.9°C). Option LT low temperature to -20°F (-28.8°C); Case: -58 to 140°F (-50 to 60°C). (Note: Product temperature limits differ from case).

Power Requirements: 24 VDC, regulated ±10%.

Electrical Wiring: Screw terminals.

Mounting Orientation: Diaphram in vertical position.

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

Switch Type: Each setpoint has 1 Form C relay (SPDT).

Relay Contacts: (resistive load) 1 Form C rated 1.0 A @ 30 VDC, 0.3 A @ 110 VDC or 0.5 A @ 125 VAC. Gold over clad silver - suitable for dry circuits.

Agency Approvals: CE 0470         II2

GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

SWITCH SPECIFICATIONS (3000MR)

Switch Type: Each setpoint has a solid state relay.

Switching Voltage: 20 to 280 VAC (47 to 63 Hz).

Switching Current: 1.0 amp (AC) max., 0.01 mA (AC) min., (2) SPST NO.