For Sensing Low Air or Gas Positive, Negative, or Differential Pressure

Ideal for both portable and stationary applications — measuring fan, blower, and fluid system pressures, filter resistance, air velocity, furnacedraft, pressures drop across orifice plates, liquid levels with bubblers.

Checks gas to air ratio controls and automatic valves, and monitors blood and respiratory pressures in medical equipment.

Using simple, frictionless Magnehelic® movement, it quickly indicates low air or noncorrosive gas pressures — positive, negative, or differential. The design resists shock, vibration, and overpressures. No manometer fluid to evaporate, freeze, or cause toxic or leveling problems. Accuracy is ±2% full scale.

Mounting

A single case size is used for most Magnehelic gauges. Can be flush or surface mounted with standard hardware. With an optional pipe-mounting kit, they may be conveniently installed on horizontal or vertical 1-1/4" to 2" pipe. Although calibrated for vertical position, many ranges above 1" can be used at any angle by simply re-zeroing. For maximum accuracy, they must be calibrated in the same position in which they are used. A 4-1/2" hole is required for flush panel mounting. Includes complete mounting and connection fittings and instructions.

Specifications

**Ambient Temperature:** 20°F to 140°F. Low temperature models available.

**Rated Total Pressure:** -20° Hg. to 15 PSIG. For high cycle rate within total pressure rating, next higher range is recommended.

**Connections:** 1/8" NPT high and low pressure taps, duplicated — one pair side and one pair on back.

**Housing:** Diecast aluminum, Iridite-dipped to withstand 168 hour salt spray test. Exterior finish is baked dark gray hammerloid.

**Accuracy:** ±2% full scale (3% on -0 and 4% on -00 models, vertical scale position only), throughout range at 70°F.

**Accessories:** Two 1/8" NPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adaptors, and three flush mounting adaptors with screws. (Mounting ring and snap ring retainer substituted for 3 adaptors in MP and HP accessories.)

Model Selection Guide

<table>
<thead>
<tr>
<th>Range Inches of Water</th>
<th>Minor Dimensions</th>
<th>Catalog Number</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 0.25</td>
<td>0.05</td>
<td>2000-00*</td>
<td>$54.00</td>
</tr>
<tr>
<td>0 to 0.50</td>
<td>0.01</td>
<td>2000-0*</td>
<td>49.00</td>
</tr>
<tr>
<td>0 to 1.0</td>
<td>0.02</td>
<td>2001</td>
<td>49.00</td>
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<tr>
<td>1 to 2.0</td>
<td>0.05</td>
<td>2002</td>
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</tr>
<tr>
<td>0 to 5.0</td>
<td>0.10</td>
<td>2005</td>
<td>49.00</td>
</tr>
</tbody>
</table>

*00 Model: 4% accuracy in vertical scale position only. -0 Model: 3% accuracy in vertical scale position only.

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Combination Indicating Differential Pressure Gauge, High/Low Alarm

The Photohelic® switch/gauge can control pressure in air conditioning systems, clean rooms, fluidic and pneumatic control systems, materials handling equipment; alarm or control fume exhaust systems; control pressure in air structures; and monitor respiratory and blood pressures.

Photohelics function like versatile, precise pressure switches combined with time-proven Magnehelic®-design pressure gauges. And, the rated pressure of Photohelic is 25 PSIG.

Gauge reading is unaffected by switch operation. Easy-to-adjust setpoints with knob controls. Applied pressure and switch setpoints are fully visible. Deadband is one pointer width — less than 1% of full scale. DPDT relays can be easily interlocked to provide variable deadband control. Two photo-actuated circuits and two DPDT relays permit both high and low alarms or limit controls. Relays are de-energized when gauge pointer is to the left of respective setpoints, and energized as pointer passes to the right. Loss of electrical power or loss of pressure provide failsafe protection.

Photohelic switch/gauges can be wired for high-latching, low-latching, or combination high-low latching circuits. The equipment will hold in these respective positions once activated and until manually reset. Particularly useful for alarm and signal applications where you’re controlling with another Photohelic switch/gauge or other means. Complete wiring and operational instructions are included. Relay transformer features a translucent Styrene Acrylonitrile housing to protect electronic components. Solid state and integrated circuit electronics are on glass-epoxy printed circuit boards and self-extinguishing terminal boards.

Specifications

**Ambient Temperature:** 20°F to 120°F. Low temperature models available.

**Rated Pressure:** 20°Hg to 25psig total pressure on either side of diaphragm.

**Accuracy:** ±2% of full scale at 70°F. (3% on -0 and 4% on -00 models, vertical scale position only).

**Gauge Connections:** Photohelic, 1/8" NPT.

**Electrical Rating (of Relays):** 10 amps @ 110/240 VAC, 60 Hz; resistive.

**Power Required:** 110V, 50/60 Hz.

**Conduit Opening:** 3/4" conduit.

**Finish:** Case exterior is baked, dark gray hammerloid.

Model Selection Guide

<table>
<thead>
<tr>
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<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 0.25</td>
<td>0.005</td>
<td>3000-00*</td>
<td>$199.00</td>
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<tr>
<td>0 to 0.50</td>
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<td>3000-0*</td>
<td>189.00</td>
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<tr>
<td>0 to 1.0</td>
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<td>1 to 2.0</td>
<td>0.05</td>
<td>3002</td>
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</tr>
<tr>
<td>0 to 5.0</td>
<td>0.10</td>
<td>3005</td>
<td>189.00</td>
</tr>
</tbody>
</table>

*00 Model: 4% accuracy in vertical scale position only. -0 Model: 3% accuracy in vertical scale position only.

Call Lesman for other pressure measurement and ambient temperature ranges.