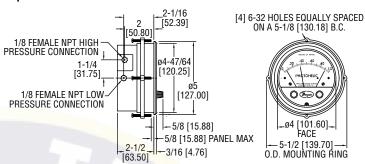


PHOTOHELIC® SWITCH/GAGES
Combines Differential Pressure Gage with Low/High Set-Points, Compact Size





Using solid state technology, the SERIES 3000MR AND 3000MRS Photohelic® Switch/Gages combine the functions of a precise, highly repeatable differential Switch/Gages combine the functions of a precise, highly repeatable differential pressure switch with a large easy-to-read analog pressure gage employing the durable, time-proven Magnehelic® gage design. Switch setting is easy to adjust with large external knobs on the gage face. Gage reading is unaffected by switch operation - will indicate accurately even if power is interrupted. Solid state design now results in greatly reduced size and weight. Units can be flush mounted or surface mounted with hardware supplied. 3000MR models employ versatile electromechanical relays with gold over silver contacts - ideal for dry circuits. For applications requiring high cycle rates, choose 3000MRS models with SPST (N.O.) solid state relays. All models removide both low and high limit control and include 18-inch (45 cm) cable assemblies provide both low and high limit control and include 18-inch (45 cm) cable assemblies for electrical connections.

Compatible with air and other non-combustible, non-corrosive gases, they can be used

in systems with pressures to 25 psig (1.725 bar). Optional construction is available for use to either 35 psig (2.42 bar) or 80 psig (5.51 bar).

FEATURES/BENEFITS

- Gage reading unaffected by switch operation and will continue to read pressure even during power loss
- Zero and range adjustments outside of gage means no disassembly in normal
- Solid-state design allows for switching in high cycle rate applications without degradation

APPLICATIONS

- Pneumatic conveying Air conditioning systems
- Clean rooms

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MODEL CHART					
Model	Range, in w.c.	Minor Divs.	Model	Range, in w.c.	Minor Divs.
3000MR-00 3000MR-0 3001MR 3002MR 3003MR 3005MR 3015MR 3015MR 3020MR 3030MR 3050MR 3100MR	0-0.25 0-0.5 0-1.0 0-2.0 0-3.0 0-5.0 0-10 0-15 0-20 0-30 0-50 0-50 0-50	.005 .01 .02 .05 .10 .10 .20 .50 .50 1.0 1.0 2.0	3000MRS-00** 3000MRS-0* 3001MRS 3002MRS 3003MRS 3003MRS 3010MRS 3010MRS 3020MRS 3030MRS 3030MRS 3100MRS	0-0.25 0-0.5 0-1.0 0-2.0 0-3.0 0-5.0 0-10 0-15 0-20 0-30 0-50 0-100	.005 .01 .02 .05 .10 .10 .20 .50 .50 1.0 1.0 2.0
Model	Range, Pascals	Minor Divs.	Model	Range, Pascals	Minor Divs.
3000MR-60PA* 3000MR-125PA 3000MR-250PA 3000MR-500PA	0-60 0-125 0-250 0-500	2.0 5.0 5.0 10.0	3000MRS-60PA* 3000MRS-125PA 3000MRS-250PA 3000MRS-500PA	0-60 0-125 0-250 0-500	2.0 5.0 5.0 10.0
Model	Range, kPa	Minor Divs.	Model	Range, kPa	Minor Divs.
3000MR-1KPA 3000MR-3KPA 3000MR-4KPA	0-1.0 0-3.0 0-4.0	.02 .10 .10	3000MRS-1KPA 3000MRS-3KPA 3000MRS-4KPA	0-1.0 0-3.0 0-4.0	.02 .10 .10
Model	Range, mm w.c.	Minor Divs.	Model	Range, mm w.c.	Minor Divs.
3000MR-6MM* 3000MR-10MM 3000MR-25MM 3000MR-50MM 3000MR-100MM	0-6 0-10 0-25 0-50 0-100	.20 .50 .50 1.0 2.0	3000MRS-6MM* 3000MRS-10MM 3000MRS-25MM 3000MRS-50MM 3000MRS-100MM	0-6 0-10 0-25 0-50 0-100	.20 .50 .50 1.0 2.0
Model	Range, cm w.c.	Minor Divs.	Model	Range, cm w.c.	Minor Divs.
3000MR-20CM	0-20	.50	3000MRS-20CM	0-20	.50
*±3% of full-scale. **± 4% of full-scale.					
Note: To order, select either MR or MRS suffix to Series 3000 number.					

SPECIFICATIONS

GAGE SPECIFICATIONS Service: Air and non-combustible,

ompatible gases

Wetted Materials: Consult factory.
Accuracy: ±2% of FS (3000-0 ±3% of FS). (3000-00 ±4% of FS).

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

Temperature Limits: 20 to 120°F (-6.67

to 48.9°C).

Process Connections: 1/8" female NPT (duplicated side and back).

(duplicated side and back). Size: 4" (101.6 mm) dial face, 5" (127 mm) OD x 3-1/8" (79.38 mm). Weight: 1.8 lb (816 g).

SWITCH SPECIFICATIONS 3000MR

Switch Type: Each setpoint has 1 form C relays (SPDT).
Relay Contacts: (Resistive load) 1 form C rated 1.0A @ 30 VDC, 0.3A @ 110 VDC or 0.5A @ 125 VAC.
Gold over clad silver - suitable for dry

circuits.
Electrical Connections: 18" (46 cm) cable assembly with 8 conductors. Optional lengths to 100′ (30.5 m).

Power Requirements: 24 VDC, regulated ±10%.

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.

Set Point Adjustment: Adjustable knobs on face

Agency Approvals: CE.

SWITCH SPECIFICATIONS 3000MRS Switch Type: Each setpoint has a solid

Switching Voltage: 20-280 VAC

(47-63 Hz). Switching Current: 1.0 amp (AC) max., 0.01 mA (AC) min., (2) SPST NO. Electrical Connections: 18" (46 cm) cable assembly with 6 conductors, optional lengths to 100′ (30.5 m). Power Requirements: 24 VDC,

regulated ±10%.

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.

Set Point Adjustment: Adjustable

knobs on face.

Agency Approvals: CE.

ACCESSORIES				
Model	Description			
A-370	Flat aluminum bracket for flush mounting 3000MR/MRS Mounting bracket flush mount 3000MR/MRS bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish R/C snubber recommended for inductive loads like a solenoid or contactor			
ACCESSORIES - STANDARD				
Description				
Mounting ring, snap ring, 18" (45 cm) cable assembly, (2) 3/16" tubing to 1/8" NPT adapters, (2) 1/8" NPT pipe plugs, (4) 6-32 x 1-1/4" RH machine screws (panel mounting), (3) 6-32 x 5/16" RH machine screws (surface mounting)				

OPTIONS				
To order add suffix:	Description			
-TAMP	Tamper-proof knobs; require spanner key			
	(supplied) to change setpoints			
-LT	Low temperature option; for use under 20°F			
	(-6.7°C)			
-MP	Medium pressure; increases maximum rated			
	pressure to 35 psig (2.41 bar) High pressure; increases maximum rated			
-HP	High pressure; increases maximum rated			
	pressure to 80 psig (5.5 bar)			
-WP	Weatherproof housing option			
-NIST	Weatherproof housing option NIST traceable calibration certificate			
Example: 3001MR-NIST				

Process Tubing Options: See page 443 (Gage Tubing Accessories)

Examples: 3001MR or 3001MRS