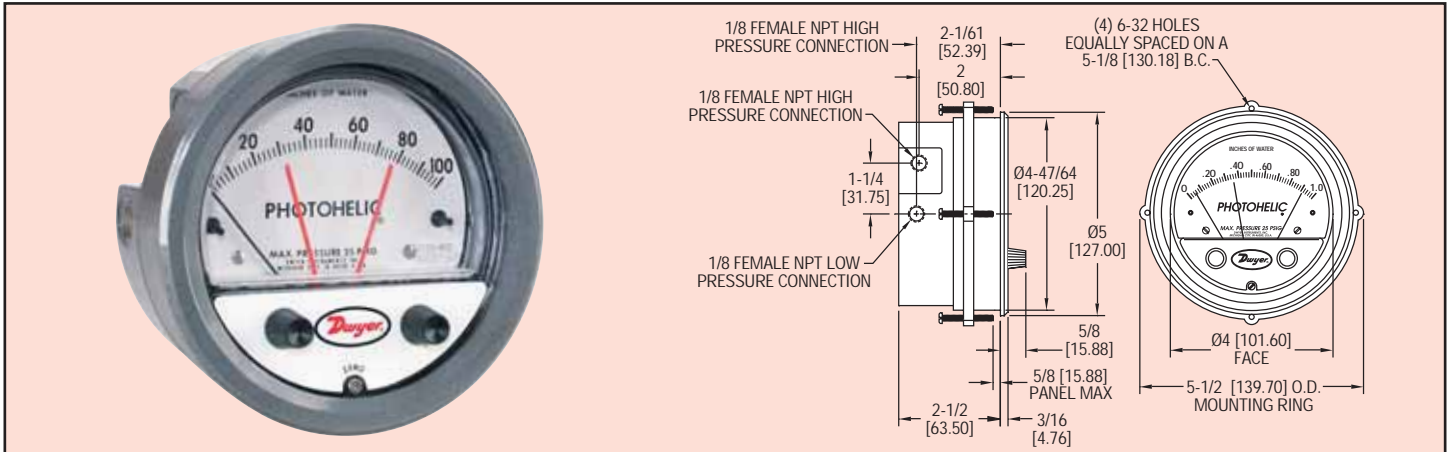




Series
3000MR
3000MRS

Photohelic® Switch/Gages

Combines Differential Pressure Gage with Low/High Set-points



Using solid state technology, the Series 3000MR and 3000MRS Photohelic® 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 in 4-13/16" (122 mm) hole 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 provide both low and high limit control and include 18-inch (45 cm) cable assemblies for electrical connections.

Gage accuracy is $\pm 2\%$ of full scale and switch repeatability is $\pm 1\%$. Switch deadband is one pointer width – less than 1% of full scale. 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).

Included Accessories

Mounting ring, snap ring	(4) 6-32 x 1 1/4" RH machine screws
18" (45 cm) cable assembly	(panel mounting)
(2) 3/8" tubing to 1/8" NPT adapters	(3) 6-32 x 3/8" RH machine screws
(2) 1/8" NPT pipe plugs	(surface mounting)

SPECIFICATIONS

GAGE SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

Accuracy: $\pm 2\%$ of full scale (3000-0 $\pm 3\%$ of full scale). (3000-00 $\pm 4\%$ of full scale).

Pressure Limit: -20" 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. (-6.67 to 48.9°C).

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

Size: 4" (101.6 mm) dial face, 5" (127 mm) O.D. 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 $\pm 10\%$.

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 state relay.

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

Switching Current: 1.0 amp (AC) max., 0.01 mA (AC) min., (2) SPST N.O.

Electrical Connections: 18" (46 cm) cable assembly with 6 conductors, Optional lengths to 100" (30.5 m).

Power Requirements: 24 VDC, regulated $\pm 10\%$.

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

Set Point Adjustment: Adjustable knobs on face.

Agency Approvals: CE.

SERIES 3000MR, 3000MRS PHOTOHELIC®

Model Number	Range, Inches w.c.	Minor Divs.	Model Number	Range, Kilopascals	Minor Divs.
3000(MR)(MRS)**-00	0-0.25	.005	3000(MR)(MRS)-1KPA	0-1.0	.02
3000(MR)(MRS)*-0	0-0.5	.01	3000(MR)(MRS)-3KPA	0-3.0	.10
3001(MR)(MRS)	0-1.0	.02	3000(MR)(MRS)-4KPA	0-4.0	.10
3002(MR)(MRS)	0-2.0	.05			
3003(MR)(MRS)	0-3.0	.10	Model Number	Range, MM W.C.	Minor Divs.
3005(MR)(MRS)	0-5.0	.10	3000(MR)(MRS)-6MM*	0-6	.20
3010(MR)(MRS)	0-10	.20	3000(MR)(MRS)-10MM	0-10	.50
3015(MR)(MRS)	0-15	.50	3000(MR)(MRS)-25MM	0-25	.50
3020(MR)(MRS)	0-20	.50	3000(MR)(MRS)-50MM	0-50	1.0
3030(MR)(MRS)	0-30	1.0	3000(MR)(MRS)-100MM	0-100	2.0
3050(MR)(MRS)	0-50	1.0			
3100(MR)(MRS)	0-100	2.0	Model Number	Range, CM W.C.	Minor Divs.
			3000(MR)(MRS)-20CM	0-20	.50
3000(MR)(MRS)-60PA*	0-60	2.0			
3000(MR)(MRS)-125PA	0-125	5.0			
3000(MR)(MRS)-250PA	0-250	5.0			
3000(MR)(MRS)-500PA	0-500	10.0			

* $\pm 3\%$ of full scale. ** $\pm 4\%$ of full scale.

OPTIONS — ACCESSORIES

Tamper-proof Knobs, require spanner type key (supplied) to change set-points. Add suffix **-TAMP**

Low Temperature Option for use under 20°F (-6.7°C).

Add suffix **-LT**

Medium Pressure increases maximum rated pressure to 35 psig

(2.41 bar). Add suffix **-MP**

High Pressure increases maximum rated pressure to 80 psig

(5.5 bar). Add suffix **-HP**

A-298 Flat Aluminum Bracket, for flush mounting 3000MR/MRS

A-370 Mounting Bracket, flush mount 3000MR/MRS bracket.

Bracket is then surface mounted. Steel with gray hammertone epoxy finish

A-600 R/C Snubber: Recommended for inductive loads like a solenoid or contactor

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