

Series 3000MR 3000MRS

Photohelic[®] Switch/Gages

Combines Differential Pressure Gage with Low/High Set-points

CE

Differential Pressure Gages/Switches, Dial

PRESSURE



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).

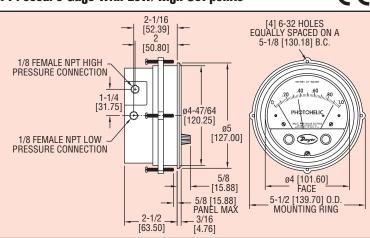
Optional construction is available for use to either 35 psig (2.42 bar) or 80 psig (5.51 bar).

(4) 6-32 x 1-1/4" RH machine screws

(3) 6-32 x 5/16" RH machine screws

(panel mounting)

(surface mounting)



SPECIFICATIONS

GAGE SPECIFICATIONS Service: Air and non-combustible, compatible gases.

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

(-0.677 bar to 1.72 bar). MP option; 35 psig (2.41 bar), HP option; 80 psig (5.52 bar).

(-6.67 to 48.9°C).

Process Connections: 1/8" female (127 mm) OD x 3-1/8" (79.38 mm). Weight: 1.8 lb (816 g).

SWITCH SPECIFICATIONS 3000MR

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) Power Requirements: 24 VDC, regulated ±10%

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations. Set Point Adjustment: Adjustable

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 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.

Series 3000MR, 3000MRS Photohelic®

INCLUDED ACCESSORIES

18" (45 cm) cable assembly

(2) 3/16" tubing to 1/8" NPT adapters

Mounting ring, snap ring

(2) 1/8" NPT pipe plugs

	Range,	Minor		Range,	Minor
Model	in w.c.	Divs.	Model	kPa	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		Range,	Minor
3003(MR)(MRS)	0-3.0	.10	Model	mm w.c.	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		Range,	Minor
3100(MR)(MRS)	0-100	2.0	Model	cm w.c.	Divs
	Range,	Minor	3000(MR)(MRS)-20CM	0-20	.50
Model	Pascals	Divs.			
3000(MR)(MRS)-60PA*	0-60	2.0	When ordering, select either MR or MRS suffix to Series 3000 number. Examples: 3001MR or 3001MRS		
3000(MR)(MRS)-125PA	0-125	5.0			
3000(MR)(MRS)-250PA	0-250	5.0			
3000(MR)(MRS)-500PA	0-500	10.0			

*±3% of full scale. **± 4% of full scale

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Find Quality Products Online at:

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OPTIONS & ACCESSORIES

Tamper-proof Knobs, require spanner type key (supplied) to change setpoints. 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

Weatherproof Housing Option.

Add Suffix -WP

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 NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 3001MR-NIST.

Process Tubing Options: See page 547 (Gage Tubing Accessories)

knobs on face.

Pressure Limit: -20" Hg. to 25 psig

Temperature Limits: 20 to 120°F

NPT (duplicated side and back). Size: 4" (101.6 mm) dial face, 5"

Switch Type: Each setpoint has 1 form Optional lengths to 100' (30.5 m).

C relays (SPDT).

cable assembly with 8 conductors.