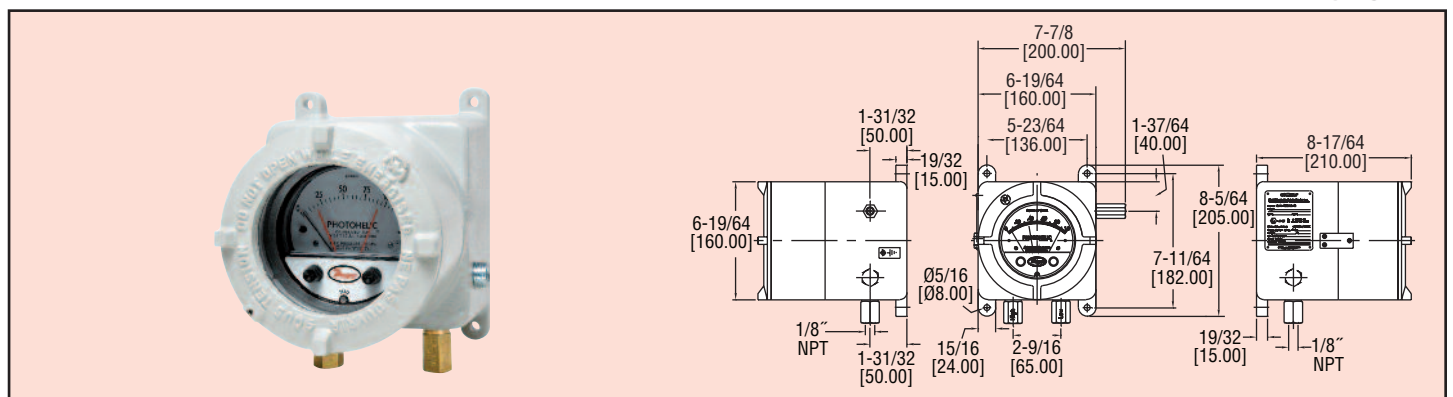




Series
AT2
3000MR

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 (1.725 bar). Optional construction is available for use to either 35 psig (2.42 bar) or 80 psig (5.51 bar). Flame-proof ATEX enclosures are available with glass window which allows for viewing of set point needles and process pressure.

Important notes for installation:

- Cables must be fitted through 1/2" NPT cable gland or ATEX conduit (not supplied with instrument).
- Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (IP65 with option OPV, overpressure relief valve).
- Open cover only after de-energizing instrument.
- **Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

Range Models	Range, in w.c.	Minor Divs.	Model	Range, Pa	Minor Divs.
3000-00	0 to 0.25	.005	3000-60 Pa	0 to 60	2.0
3000-0	0 to 0.5	.01	3000-125 Pa	0 to 125	5.0
3001	0 to 1.0	.02	3000-250 Pa	0 to 250	5.0
3002	0 to 2.0	.05	3000-500 Pa	0 to 500	10.0

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
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 (-6.67 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: Diaphragm in vertical position.
Dial Size: 4" (101.6 mm).
Set Point Adjustment: Adjustable knobs on face behind enclosure cover. Follow instructions and safety warnings to open cover.

SWITCH SPECIFICATIONS (3000MR)

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.

SWITCH SPECIFICATIONS (3000MRS)

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.

Enclosure Rating: IP66. IP65 with option OPV, overpressure relief valve.
Housing Material: Aluminum.
Finishing: Texture epoxy coat RAL7038.
Pressure Connections: 1/8" NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.

Electrical Connections: Two 1/2" FNPT. Cable gland not included.
Weight: 12.5 lb (5.7 kg).
ATEX Approved Products from Comhas with ECN: NEMKO 10ATEX1096.
Agency Approvals: CE 0470 Ex II2 GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

Series	AT23xxx-xx																			
		MR																		Electromechanical relay
		MRS																		Solid state relay
Options			-X																	Standard -25 in Hg to 25 psig
			-MP																	Medium pressure max. static 35 psig
			-HP																	High pressure max. static 80 psig
				X																Standard silicone construction
					X															Standard temperature 20 to 120°F
					LT															Low temperature to -20°F
Case Material						-A														Aluminum
Case Options							B													Blind
							O													Glass top cover
								1												1/8" NPT female brass ports
								2												1/8" NPT female SS ports
									X											Standard without
										OPV										overpressure relief valve
																				Overpressure relief valve
																				Material same as ports
																				SS information label
																				T2