



SERIES AT3A3000 | ATEX/IECEX APPROVED PHOTOHELIC® SWITCH/GAGE



FEATURES/BENEFITS

- 3-in-1 ATEX/IECEX approved instrument allows the reduction of several instruments with one product, saving inventory, installation time, and money
- Flame-proof ATEX/IECEX enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to process pressure and set point status

APPLICATIONS

- Hazardous area pressure measurement and switching
- Air conditioning systems
- Clean rooms
- Fume exhaust systems

DESCRIPTION

Flame-proof **Series AT3A3000 ATEX/IECEX Approved Photohelic® Switch/Gage**, functions as versatile, highly repeatable pressure switches combined with a precise pressure gage employing the time-proven Magnehelic® gage design. The Photohelic® switch/ gage measures and controls positive, negative or differential pressures of air and compatible gases. Standard models are rated to 25 psig (1.7 bar) with options to 35 psig (2.4 bar) or 80 psig (5.5 bar). Two phototransistor actuated, DPDT relays are included for low/high limit control. Easy to adjust set point indicators are controlled by knobs located on the gage face (accessible opening case after de-energizing instrument). Set points can be interlocked to provide variable dead band— ideal for control of fans, dampers, etc. Gage reading is continuous and unaffected by switch operation, even during loss of electrical power. Flame-proof enclosures are available in aluminum with glass window which allows for viewing of set point needles and process pressure.

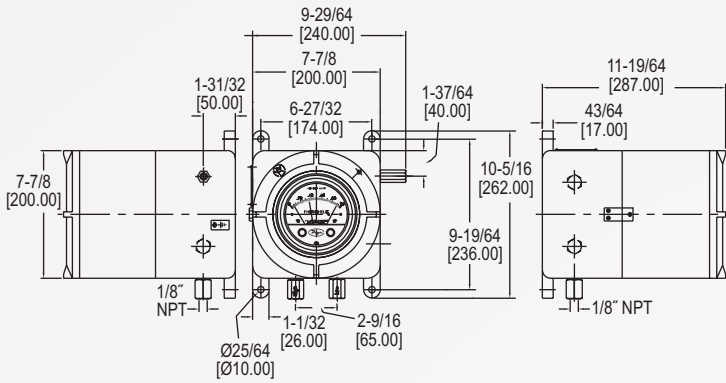
GAGE SPECIFICATIONS

Service	Air and non-combustible, compatible gases.
Wetted Materials	Consult factory.
Accuracy	±2% of FS at 70°F (21.1°C); ±3% on -0 and ±4% on -00 models.
Pressure Limits	-20 in Hg to 25 psig (-0.677 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) LT low temperature option to -20°F available (Note: Product temperature limits differ from case).
Dial Size	4" (101.6 mm).
Mounting Orientation	Diaphragm in vertical position.
Set Point Adjustment	Adjustable knobs on Photohelic® gage face behind enclosure cover. Follow instructions and safety warnings to open cover.

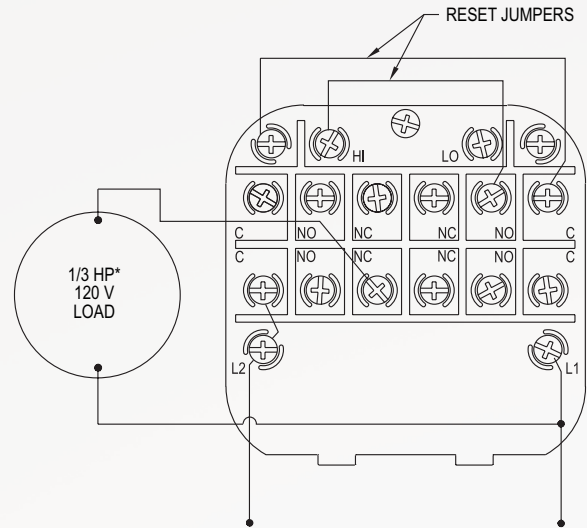
SWITCH SPECIFICATIONS

Switch Type	Each setpoint has 2 Form C relays (DPDT).
Repeatability	±1% of FS.
Electrical Rating	10 A @ 120 VAC, 6 A @ 240 VAC, 60 Hz res. 10 A @ 28 VDC.
Electrical Wiring	Screw terminals.
Power Requirements	120 VAC, 50/60 Hz; 240 VAC & 24 VAC power optional.
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	Three 1/2" FNPT. Cable gland not included.
Weight	28.4 lb (12.9 kg).
ATEX Certificate	BVI 14ATEX0072.
Agency Approvals	ATEX Compliant CE 1370 Ex II 2G Ex d IIC T6 Gb / II 2D Ex tb IIIC T85°C Db, -60°C ≤ Tamb ≤ +60°C IECEx Compliant: Ex d IIC T6 Gb / Ex tb IIIC T85°C Db.

DIMENSIONS



WIRING DIAGRAM



***Note:** For larger motors, use the Photohelic® Switch/Gage in a maintained contact, 120 Volt Control or Push Button Circuit of the motor starter.

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

	AT3A3001	-120VAC	-MP	X	LT	-A	B	1	OPV	T2	
RANGE/SERIES*	<ul style="list-style-type: none"> AT3A3001: 0 to 1 in w.c. AT3A3002: 0 to 2 in w.c. AT3A3003: 0 to 3 in w.c. AT3A3004: 0 to 4 in w.c. AT3A3005: 0 to 5 in w.c. AT3A3000-60PA: 0 to 60 Pa AT3A3000-125PA: 0 to 125 Pa AT3A3000-250PA: 0 to 250 Pa AT3A3000-300PA: 0 to 300 Pa AT3A3000-750PA: 0 to 750 Pa 										TAG
POWER	<ul style="list-style-type: none"> -120VAC: 120 VAC -240VAC: 240 VAC -240VAC: 24 VAC 										OVERPRESSURE PLUG
PRESSURE RATING	<ul style="list-style-type: none"> -X: Standard construction 15 psig -MP: Medium pressure 35 psig -HP: High pressure 80 psig 										PROCESS CONNECTION
CONSTRUCTION	<ul style="list-style-type: none"> X: Standard construction 										COVER
TEMPERATURE RATING	<ul style="list-style-type: none"> X: Standard LT: Low temperature option 										HOUSING MATERIAL
											1: 1/8" NPT female brass ports
											2: 1/8" NPT female SS ports
											B: Blind top cover
											O: Glass top cover
											-A: Aluminum

*Only our most popular models and options are listed. For additional available models, please visit: <http://www.dwyer-inst.com/Product/Pressure/DifferentialPressure/Gage-Switches-Dial/SeriesAT3A3000>

ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesAT3A3000



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