Pressure Switch for gas and air

GAO-A4... GMH-A4... GML-A4...







- **UL Listed**
- UL 353
- File # MH 16628

CSA Certified

- CSA C22.2 No. 13 and No. 0
- Certification file # 201527

FM Approved

- Class 3510, 3530
- File # J.I. 1Y919.AF

Commonwealth of Massachusetts Approved Product

- Approval code G3-0106-191
- Gas pressure switch

Codes and Standards

This product is intended for installations covered by but not limited to NFPA 85, NFPA 86, UL 795, CSD-1, ANSI Z83.4, ANSI Z83.18, ANSI Z21.13, CSA B149.1, CSA B149.3 and CSA B149.6.

DUNGS is an ISO 9001 manufacturing facility.



Description

The GAO-, GMH- and GML-A4... ventless pressure switches are adjustable pressure switches for automatic burner controls.

These pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale. Test nipple integrated in metal housing to verify set point.

Application

The GAO-, GMH-, and GML-A4... pressure switch is recommended for industrial and commercial heating, ventilation and air-conditioning systems.

The GAO-, GMH-, and GML-A4... pressure switch is suitable for dry natural gas, propane, butane, air and other inert gases. Suitable for up to 0.1 % by volume, dry H_2S .

A "dry" gas has a dew point lower than +15 °F and its relative humidity is less than 60 %.

GAO-A4... SPDT pressure switch requires no auxiliary power. The GAO-A4... is suitable for making and/or breaking a circuit when the set point is exceeded or undershot. A tripped switch is indicated by a neon light after set point is exceeded or undershot. A tripped switch is indicated by a neon light after set point is exceeded or undershot. A tripped switch is indicated by a neon light after set point is exceeded or undershot.

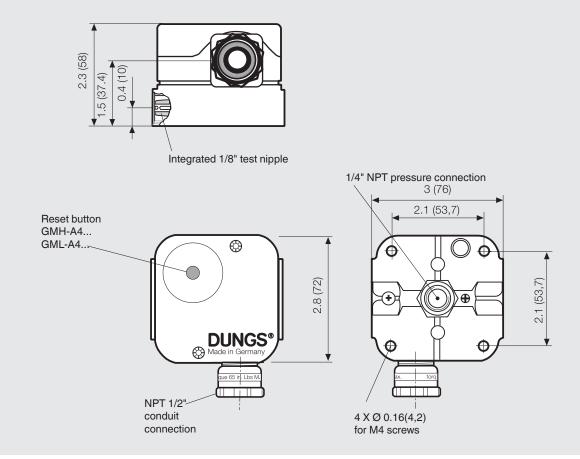
GMH-A4... SPDT pressure switch requires no auxiliary power. The GMH-A4... is suitable for making and/or breaking a circuit when the set point is exceeded. A tripped switch is indicated by a neon light after set point is exceeded. Manual reset is required to reset the switch.

GML-A4... SPDT pressure switch requires no auxiliary power. The GML-A4... is suitable for making and/or breaking a circuit when the set point is undershot. A tripped switch is indicated by a neon light after set point is undershot. Manual reset is required to reset the switch.

Specifications

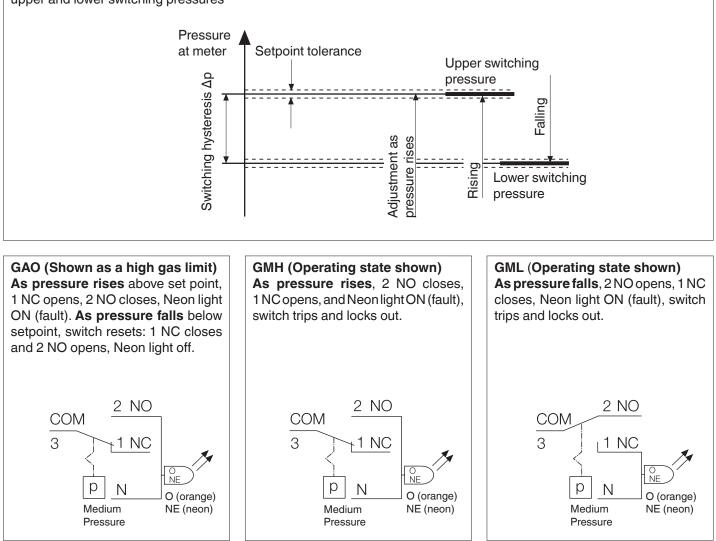
Max. operating pressure	GAO-A4-4-2,3,5,6	7 PSI (500mbar)		
	GMH- and GML-A4-4-4,6	7 PSI (500mbar)		
	GAO-, GMH- and GML-A4-4-8	14 PSI (1000 mbar)		
Max. body pressure	15 PSI (1033 mbar)			
Pressure connection	Standard: 1/4" NPT female thread ce	Standard: 1/4" NPT female thread centered underside of housing.		
Temperature range:				
GAO-, GMH- and GML-A4-4	Ambient temperature	-40 °F to +140 °F (-40 °C to +60 °C)		
	Medium temperature	-40 °F to +140 °F (-40 °C to +60 °C)		
GAO-, GMH- and GML-A4-4-8	Ambient temperature	-22 °F to +140 °F (-30 °C to +60 °C)		
	Medium temperature	-22 °F to +140 °F (-30 °C to +60 °C)		
Materials	Housing	Aluminium		
	Switch	Polycarbonate		
	Diaphragm	NBR-based rubber		
	Switching contact	Silver or Gold		
Electrical ratings	AC eff.	min. 24 V max. 240 V		
-	DC	min. 24 V max. 48 V		
Nominal current	Silver (Ag) contact ratings	Gold (Au) contact ratings		
	AC 10 A resistive @ 120 VAC			
	AC 8 A inductive @ 120 VAC			
	DC min. 20 mA @ 24 VDC	DC max. 5 mA @ 5 VDC		
	DC max. 1 A @ 24 VDC & 48 VDC	DC max. 20 mA @ 24 VDC		
Indication light	0.30 W energy consumption	0.30 W energy consumption		
Electrical connection	Screw terminals via 1/2" NPT conduit	Screw terminals via 1/2" NPT conduit connection		
Enclosure rating	NEMA Туре 4			
Setting tolerance	ed to set point. Adjusted as pressure rises			
	or as pressure falls, vertical diaphrag	m position.		
Vent Limiter	353 and limits the escape of gas less than			
	1.0 CFH of natural gas at 7 PSI if inter	nal switch diaphragm ruptures		

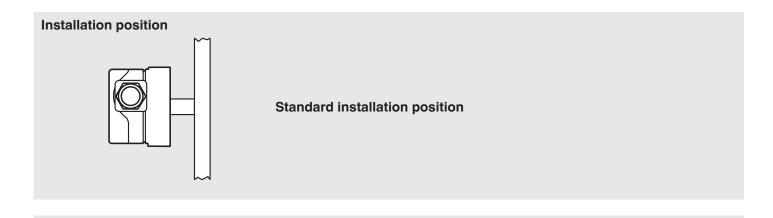
Dimensions inch (mm) GAO-, GMH-, GML-A4...

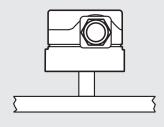


Definition of switching hysteresis Δp The pressure difference between the

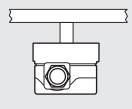
upper and lower switching pressures



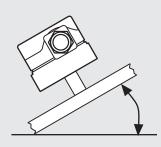




When installed horizontally, the pressure switch switches at a pressure higher by approximately 0.2 in. W.C. (0.5 mbar).



When installed upside down, the pressure switch switches at a pressure lower by approximately 0.2 in. W.C. (0.5 mbar).



When installed in other position the pressure switch switches at pressure deviating from the set reference value by max. ± 0.2 in. W.C. (0.5 mbar).



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Туре	Version	Order No.	Setting range in. W.C.	Switching hysteresis in. W.C.	Factory Calibration
GAO-A4 pressure switch	GAO-A4-4-2 GAO-A4-4-3 GAO-A4-4-5 GAO-A4-4-6 GAO-A4-4-8 GAO-A4-4-3 Gold GAO-A4-4-5 Gold GAO-A4-4-6 Gold GAO-A4-4-8 Gold	266919 266920 266921 266922 266923 266958 266959 266960 266966	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	≤ 0.12 ≤ 0.20 ≤ 0.40 ≤ 1.2 ≤ 4.0 ≤ 0.20 ≤ 0.40 ≤ 1.2 ≤ 4.0	ţŪ
GMH-A4 pressure switch	GMH-A4-4-4 GMH-A4-4-6 GMH-A4-4-8 GMH-A4-4-4 Gold GMH-A4-4-6 Gold	266927 266928 266930 266961 266962	1.00 - 20.00 12.00 - 60.00 40.00 - 200.00 1.00 - 20.00 12.00 - 60.00	 	ţŪ
GML-A4 pressure switch	GML-A4-4-4 GML-A4-4-6 GML-A4-4-8 GML-A4-4-4 Gold	266945 266947 266948 266963	1.00 - 20.00 12.00 - 60.00 40.00 - 200.00 1.00 - 20.00	 	ţſ]

All switches with Silver contacts have 120 VAC neon lights factory installed All switches with Gold contacts have 24 V lights factory installed

Accessories for pressure switch	Order No.
Replacement cover (with screws)	267182 (for GAO switches) and 267181 (for GMH and GML switches)
PG 11 - 1/2" NPT conduit adapter	220566
M 20 - 1/2" NPT conduit adapter	240671
120 VAC neon light (orange)	244156
24 VAC/VDC light (orange)	244157
DIN connector (female plug)	210318
Male plug for DIN connector	219659 (for GAO switches) and 227644 (for GMH and GML switches)

We reserve the right to make any changes in the interest of technical progress.

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