Pressure Switch for gas and air

GGAO-A4...





CSA Certified

- CSA C22.2 No. LR 53222
- Certification file # 201527

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, 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 GGAO-A4... ventless differential pressure switch is an adjustable pressure switch 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 is integrated in metal housing to verify set point.

Application

The GGAO-A4... pressure switch is recommended for industrial and commercial heating, ventilation and airconditioning systems.

The GGAO-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 H₂S.

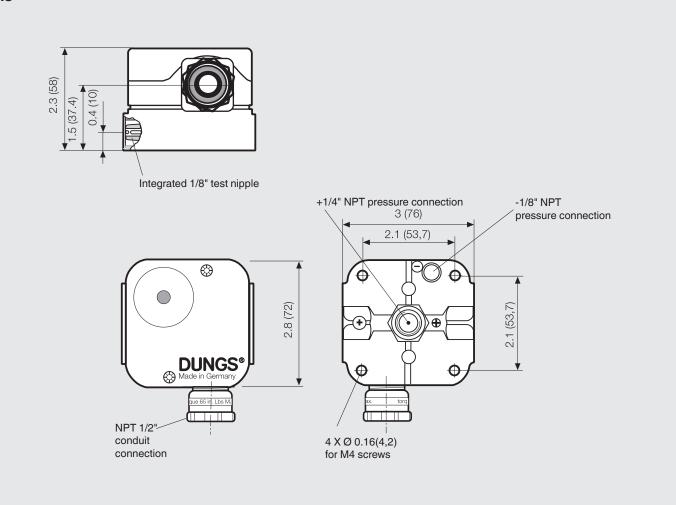
A "dry" gas has a dew point lower than +15 °F and its relative humidity is less than 60 %.

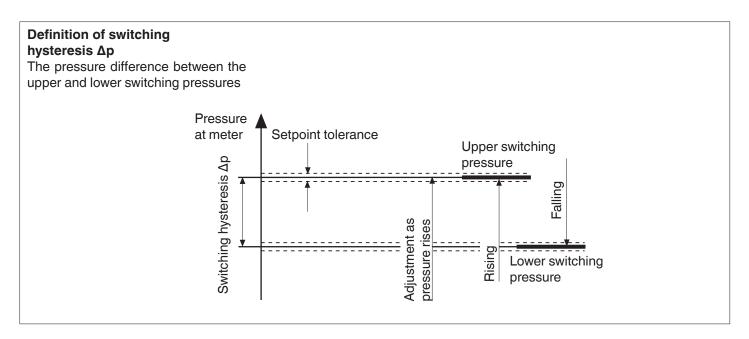
GGAO-A4... SPDT differential gas pressure switch requires no auxiliary power. The GGAO-A4... is suitable for making and/or breaking a circuit when the set point is exceeded or undershot. A tripped switch is indicated by a neon light after set point is exceeded or undershot. Automatic reset when pressure returns below or above set point.

Specifications

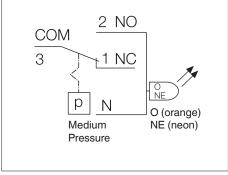
Max. operating pressure	GGAO-A4-2,-3,-5,-6	7 PSI (500mbar)	
Max. body pressure	15 PSI (1033 mbar)		
Pressure connection	- 1/8" NPT threaded connection+ 1/4" NPT female thread centered underside of housing.		
Temperature range GGAO	Ambient temperature Medium temperature	-40 °F to +140 °F (-40 °C to +60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

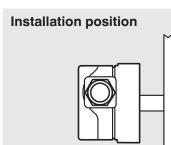
Dimensions inch (mm) GGAO



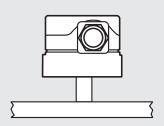


GGAO (Shown as a high gas limit) As pressure rises above set point, 1 NC opens, 2 NO closes, Neon light ON (fault). **As pressure falls** below setpoint, switch resets: 1 NC closes and 2 NO opens, Neon light off.

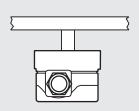




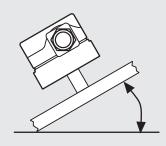
Standard installation position



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).

NOTE: Always calibrate the switch in the desired mounting position

GGAO-A4...



Туре	Version	Order No.	Setting range in. W.C.	Switching hysteresis in. W.C.	Factory Calibration
GGAO-A4 pressure switch	GGAO-A4-4-2 GGAO-A4-4-3 GGAO-A4-4-5 GGAO-A4-4-6	271329 271330 271331 271332	0.16 - 1.20 0.40 - 4.00 2.00 - 20.00 12.00 - 60.00	≤ 0.12 ≤ 0.20 ≤ 0.40 ≤ 1.2	† □
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 (screws not included)	228732 (for GGAO switches)
Screw for replacement cover	237675
PG 11 - 1/2" NPT conduit adapter	220566
M 20 - 1/2" NPT conduit adapter	240671
120 VAC neon light (yellow)	244156
24 VAC/VDC light (yellow)	244157
DIN connector (female plug)	210318
Male plug for DIN connector	219659 (for GGAO switches)

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