Differential pressure switch for air, flue and exhaust gases

AA-A2...









Approvals

UL Listed

- UL 353
- File # MH 16628

CSA Certified

- CSA C22.2 No. 14
- File # 201527

FM Approved

- Class 3510, 3530
- File # J.I. 0D6A1.AF

Commonwealth of Massachusetts Approved Product

- Approval code G3-0106-191
- Air pressure switch for differential, vacuum or pressure

Codes and Standards

This product is recommended for installations covered by but not limited to NFPA 85, NFPA 86, ANSI Z83.4/CSA3.7, ANSI Z83.18/CSA4.9, ANSI Z21.13, CSD-1, UL 795, CSA B149.1, or CSA B149.3.

DUNGS is an ISO 9001 manufacturing facility.



Description

AA-A2... differential pressure switches are field adjustable, compact pressure switches for automatic burner controls. Available with hose or NPT threaded connections.

AA-A2-4... differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. AA-A2-4... versions feature hose connections.

AA-A2-6... differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. AA-A2-6... versions feature NPT threaded connections that also include a test button in the lower housing.

Application

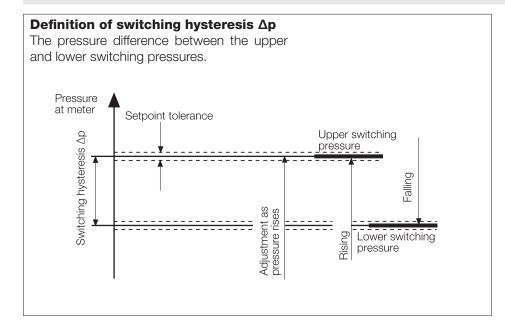
Differential pressure monitoring in firing, ventilation and air-conditioning systems. The AA-A2... can be used as a pressure, vacuum or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane and other combustable gases.

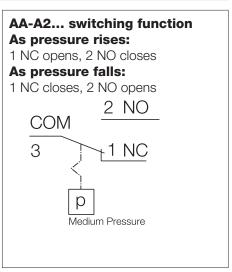
AA-A2... SPDT differential pressure switch in pressure and vacuum ranges. The differential pressure acts via the diaphragm against the force of the setting spring on the microswitch. The pressure switch operates without any auxiliary power

TYPE: AA-A2-6 Threaded connection				
onnection				
Ambient temperature -40 °F to +140 °F (-40 °C to +60 °C) Medium temperature -40 °F to +140 °F (-40 °C to +60 °C)				
Housing: Polycarbonate Switch: Polycarbonate Diaphragm: NBR-based rubber Switching contact: Silver (Ag)				
. 250 V . 48 V				
Screw terminals via 1/2" NPT conduit connection				
$\pm 15\%$ switching point deviation referred to set point, adjusted as pressure rises, vertical diaphragm position				
Multipoised				
· · · · · · · · · · · · · · · · · · ·				



Installation position: Standard installation position is vertical upright diaphragm. When installed horizontally, the pressure switch switches at a pressure higher by approx. 0.2 in. W.C. When installed upside down, the pressure switch switches at a pressure lower by approx. 0.2 in. W.C. When installed in other positions, the pressure switch switches at pressure deviating from the set reference value by max. ± 0.2 in. W.C.

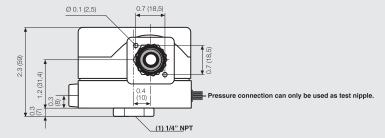


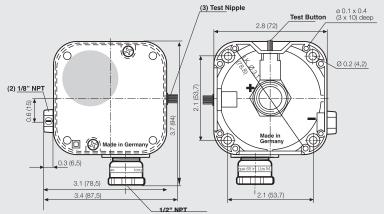


Dimensions inch (mm)

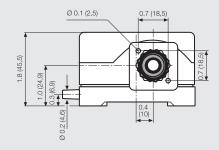
- 1 Pressure connection (+)
- 2 Pressure connection (–)
- 3 Test nipple p (+)

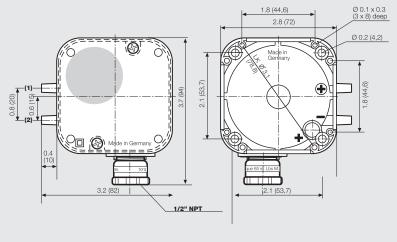
AA-A2-6... Threaded connection





AA-A2-4... Hose connection





Test button

The AA-A2-6... threaded version is equipped with a test button. When the test button is pressed, the connection to the 1/4" NPT pressure connection is interrupted and the pressure below the diaphragm is relieved. The microswitch of the pressure switch changes the contact position from NO to NC. If the test button is released, the pressure below the diaphragm is built up

again and the microswitch changes to its original position.

Differential pressure switch for air, flue and exhaust gases

AA-A2...



Туре	Version	Description	Order No.	Setting range in. W.C	Switching hysteresis in. W.C.	Factory Calibration
AA-A2-4	AA-A2-4-2	Hose connection	217-060A	0.16 - 1.2	≤ 0.12	
	AA-A2-4-3	Hose connection	217-061A	0.4 - 4	≤ 0.20	↑ □
	AA-A2-4-5	Hose connection	217-062A	2 - 20	≤ 0.40	141
	AA-A2-4-6	Hose connection	217-063A	12 - 60	≤ 1.20	
AA-A2-6	AA-A2-6-2	Threaded connection	217-329A	0.16 - 1.2	≤ 0.12	
	AA-A2-6-3	Threaded connection	217-330A	0.4 - 4	≤ 0.20	↑ ⊓
	AA-A2-6-5	Threaded connection	217-331A	2 - 20	≤ 0.40	141
	AA-A2-6-6	Threaded connection	217-332A	12 - 60	≤ 1.20	

Accessories for pressure switch	Order No.
Klima-Set (Duct mounting kit)	217-897
Replacement cover	228-732
Mounting plate (plastic)	230-301 (recommended mounting bracket)
Mounting bracket (plastic)	230-273 (optional mounting bracket)
120 VAC light mounting set (orange)	231-772
120 VAC light only (for switches with kit 231-772 already installed)	244-156
24 VDC/VAC light mounting set (orange)	231-774
Replacement conduit adapter	231-944
DIN connector (female plug)	210-318
Male plug for DIN connector	219-659

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

Karl Dungs Inc.
524 Apollo Drive, Suite 10
Lino Lakes, MN 55014, U.S.A.
Phone 651 792-8912
Fax 651 792-8919
e-mail info@karldungsusa.com
Internet http://www.dungs.com/usa/

Karl Dungs GmbH & Co. KG P.O. Box 12 29 D-73602 Schorndorf, Germany Phone +49 (0)7181-804-0 Fax +49 (0)7181-804-166 e-mail info@dungs.com Internet http://www.dungs.com