บริษัท เอดีดี เฟอร์เนส จำกัด
Add Furnace Co.,Ltd.
44 ซ.บรมราชชนนี 70 ถ.บรมราชชนนี ศาลาธรรมสพน์ ทวีวัฒนา กทม. 10170.
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Compact pressure switch for multiple actuators

GW…A5
GW…A5/1

DUNGS®
Combustion Controls

Technical description

The GW…A5 pressure switch is a compact pressure switch as per EN 1854 for DUNGS multiple actuators.
The pressure switches are suitable **for switching a circuit on, off or over on changes in actual pressure relative** to the set switching point (reference **value).**
The switching point can be set easily and quickly using a setting wheel **provided with a scale without using a** pressure gauge.

Application

Pressure switches for DUNGS multiple actuators GasMultiBloc and DMV **double solenoid valve which can be** either mounted directly on housing or by using an adapter.

Suitable for gases of families 1,2,3 and other neutral gaseous media.

Approvals

EC type testing certificate as per:
- EC-Gas Appliances Regulation
- **EC-Pressure Equipment Directive**

Pressure switch class "S" as per EN 1854.

Approvals in other important gas-consuming countries.

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Functional description

Single-acting pressure switch in over-pressure range.
The pressure switches operate without any power supply.

Switching response

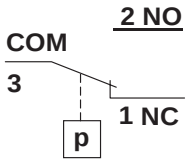
GW…A5
Short response time during pressure **fluctuations.**

GW…A5/1
Slow response time during short-term pressure fluctuations by additional damping nozzle.

Pressure Switch
The GW…A5 is a single-acting pressure switch acting in pressure range. The control unit responds to pressure.
If the set reference value is exceeded or undershot, the circuit is switched **on, off or over.**

Switching function

As pressure rises:
1 NC opens, 2 NO closes
As pressure falls:
1 NC closes, 2 NO opens



Specifications

Max. operating pressure	**GW 3 A5 - GW 150 A5** **GW 500 A5**	**500 mbar (50 kPa)** **600 mbar (60 kPa)**		
Pressure connection	**O ring flange connection on underside of pressure switch**			
Measuring connection	ø 9, length 10 mm, with screw plug			
Temperature range	Ambient temperature -15 °C to +70 °C Medium temperature -15 °C to +70 °C Storage temperature -30 °C to +80 °C			
Materials	**Housing:** **Switch:** **Diaphragms:** **Switching contact:**	**Aluminium die casting** **Polyamide** **NBR** **Ag**		
Switching voltage	**AC eff. min. 24 V** **DC min. 24 V**	**max. 250 V** **max. 48 V**		
Nominal current	**GW 10…500 A5** **AC eff. max. 10 A**		**GW 3 A5** **AC eff. max. 6 A**	
Switching current	**AC eff. max. 6 A** **AC eff. max. 3 A** **AC eff.** DC **DC**	**at cos φ 1** **at cos φ 0,6** **min. 20 mA** min. 20 mA **max. 1 A**	**AC eff. max. 4 A** **AC eff. max. 2 A** **AC eff.** DC **DC**	**at cos φ 1** **at cos φ 0,6** **min. 20 mA** min. 20 mA **max. 1 A**
Electrical connection	Plug connection for line sockets as per DIN EN 175 301-803, 3-pin, protection insulated without ground connection			
Degree of protection	**IP 54 as per IEC 529 (EN 60529)**			
Setting tolerance	**±15% switching point deviation referred to reference value, adjusted at** pressure rises**, vertical diaphragm position**			
Deviation	**Permissible deviation of the set value ≤ ± 15 % in the service life test according** to EN 1854			

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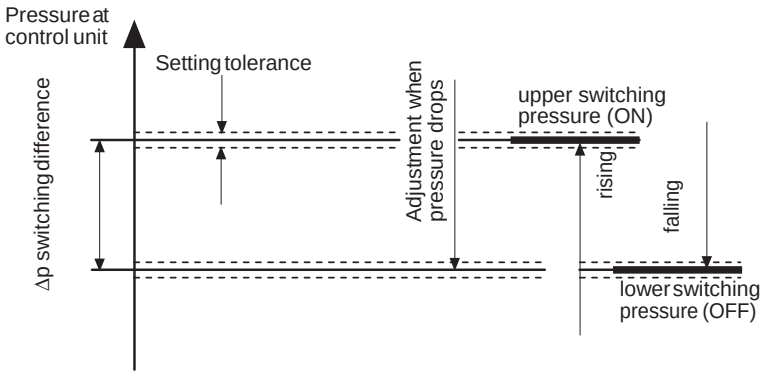
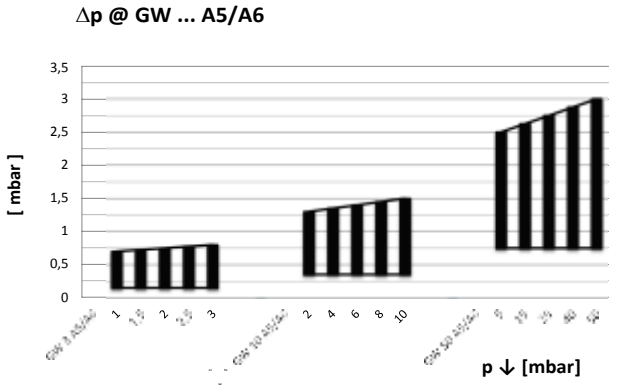
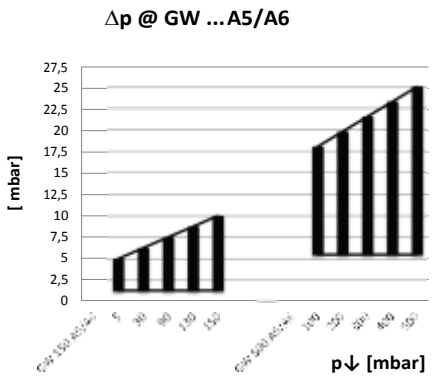
Definition of Δp switching difference
The **Δp switching difference is the pressure difference between the upper** and lower switching pressure.



Switching difference Δp @ GW...A5/A6
Depending on the corresponding set value (p↓)



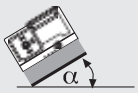


Installation position

Standard installation position; if different observe the change in switching point:
GW 3…50 A5 max. ± 0,6 mbar
GW 150 A5 max. ± 1 mbar
GW 500 A5 max. ± 3 mbar

In the horizontal installation position the switching pressure is increased.

When the pressure switch is mounted horizontally overhead, its switching pressure decreases.



When the pressure switch is mounted in an intermediate position, its switching pressure deviates.

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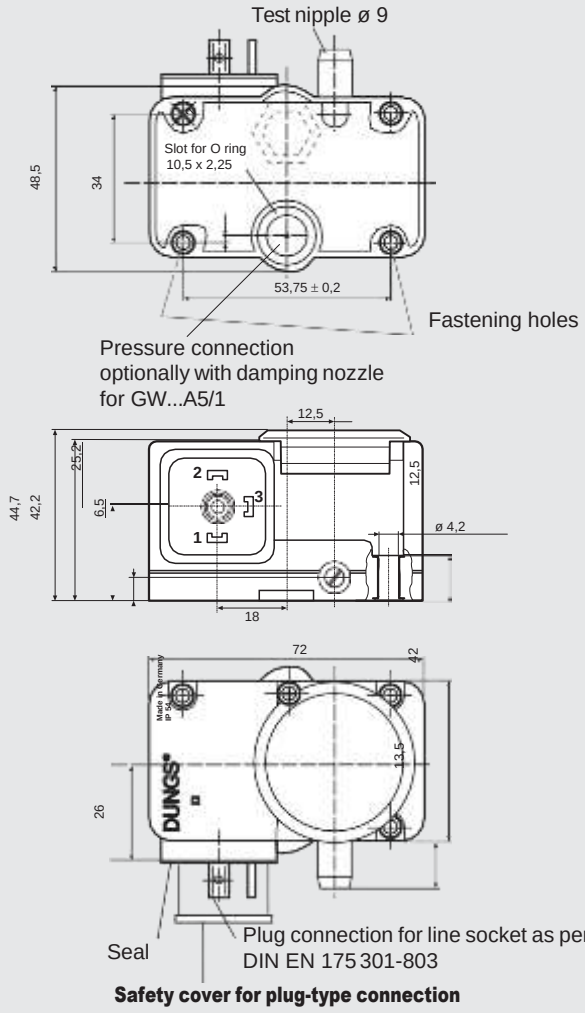
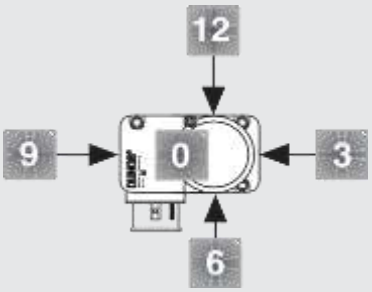
Dimensions [mm]



Designation



GW 150 A5 [Ag-G3-MS6-V12]

Pressure connection
V12 Pressure connection G 1/4 position 12

Test nipple
MS6 Test nipple at position 6

Electrical connection
G3 Equipment connector, 3 pin protection-insulated, w/ogrounding

Contact material
Ag

Setting

ranges	[kPa]	[mbar]
3	0,1 - 0,3	1 - 3
10	0,2 - 1	2 - 10
50	0,5 - 5	5 - 50
150	0,5 -15	5 - 150
500	10,0 -50	100 - 500

GW...A5 Pressure switch switches when **the setpoint is exceeded or undershot.**

GW...A5/1 Pressure switch with damping nozzle **switches on if the set reference value is exceeded or undershot**

Order example

Pressure switch design
Pressure Switch GW…A5
Setting range
0,5 - 15 kPa (5 - 150 mbar)
Contact material
Ag
Electrical connection
Equipment connector
Pressure connection
At position 12
Test nipple
MS 6

GW 150 A5 [Ag-G3-MS6-V12]

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Brief technical data 1 kPa = 10 mbar = 1000 Pa ≈ 100 mm WS

Type	Version [AG-G3-MS6-V12]	Order No. 1 piece	Order No. 100 pieces	Setting range [mbar]		max.	Switching difference Δp [mbar] p È min.	p È max.
GW…A5	GW 3 A5	**272 362**	–	1	- 3	± 15 %	≤ **0,7**	≤ **0,8**
pressure	GW 10 A5	**272 350**	**225 938**	2	- 10	± 15 %	≤ **1,3**	≤ **1,5**
switch	GW 50 A5	**272 340**	**225 939**	5	- 50	± 15 %	≤ **2,5**	≤ **3**
	GW 150 A5	**272 339**	**225 940**	5	- 150	± 15 %	≤ **5**	≤ **10**
	GW 500 A5	**272 349**	**227 639**	100	- 500	± 15 %	≤ **18**	≤ **25**
with mounting kit								
GW…A5/1	GW 10 A5/1	**241 245**	–	2	- 10	± 15 %	≤ **1,3**	≤ **1,5**
pressure	GW 50 A5/1	**241 246**	–	5	- 50	± 15 %	≤ **2,5**	≤ **3**
switch	GW 150 A5/1	**241 247**	–	5	- 150	± 15 %	≤ **5**	≤ **10**
	GW 500 A5/1	**241 248**	–	100	- 500	± 15 %	≤ **18**	≤ **25**
with damping orifice and mounting kit								

Accessories	Order-No.	for Type	Nominal diameters
Mounting kit (2 x M4x20,1 x O-ring)	223 280		
Adapter p_{Br}	273 777	MB-D …405 - 420 MB-Z …405 - 420 DMV- …503 - 520	Rp 3/8 - Rp 2 Rp 3/8 - Rp 2 Rp 3/8 - Rp 2
Adapter on **threaded flange (G 1/8)**	221 630	MB- …405-412 DMV- … SV- …505-520	Rp 3/8 - Rp 1 1/4 Rp 3/8 - Rp 2
Adapter kit for GW … A5 with G 1/4 connection	222 982	DMV- … MB- …415-420	Rp 3/8 - Rp 2
Special adapter on request		MB- … DMV- ... MVD- ...	DN 40 - DN 125 Rp 3/8 - DN 150
Line socket 3-pin +E grey GDMW	210 318		