# Pressure switch for gas, air, flue gases and combustion products

GW 500 A4/2



5.09



#### **Technical description**

The GW...A4 pressure switch is an adjustable pressure switch as per EN 1854 (GW 6000 A4 as per DIN 3398T3) for burners.

It is suitable for closing, opening or switching over a current circuit when the actual pressure value deviates from the specified pressure setpoint. The specified pressure setpoint (operating point) is set at a setting wheel using a scale.

#### **Application**

Pressure monitoring in burner control systems

Suitable for gases of gas families 1,2,3 and other neutral gaseous media, as well as air, flue gases and combustion products.

GW 500 A4: Free of non-ferrous metals, suitable for gases up to max. 0.1% by vol.  $H_2S$ , dry.

#### **Approvals**

EU type test approval as per EC Gas Appliance Directive:

GW...A4 CE-0085 AO 3220

EU type test approval as per EC Pressure Equipment Directive:

GW...A4 CE0036

Approvals in other important gasconsuming countries.

#### **Functional**

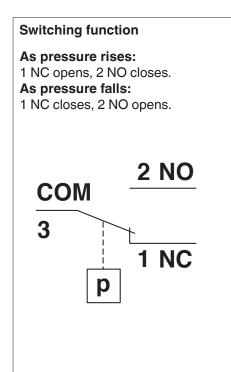
Pressure switch for applications involving excess pressure.

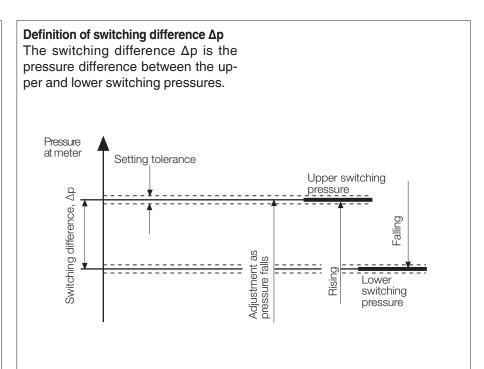
#### **GW 500 A4**

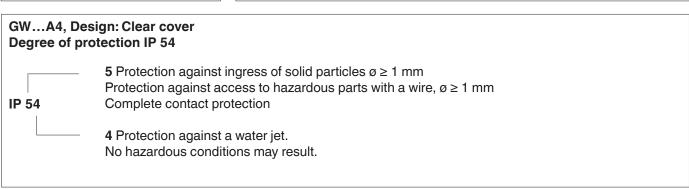
The pressure switch acts via a rubber diaphragm against the force of the setting spring on the micro-switch.

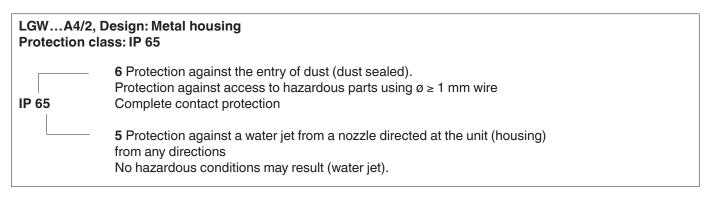
#### Pressure switch GW...A4

The switching mechanism reacts to overpressure and closes, opens or switches over a current circuit when the specified pressure setpoint is overshot or undershot.







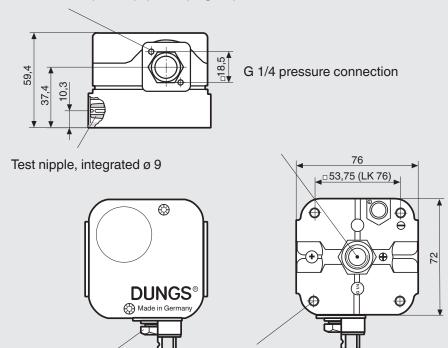


### **Specifications**

Max. Betriebsdruck	GW 500 A4	600 mbar (60 kPa)					
Pressure connection		underside of housing, G 1/4 internal thread to ISO 228: <b>Gas or air</b> additional G 1/4 internal thread at side					
Temperature range	Ambient temperature Medium temperature Storage temperature	-15 °C to +70 °C -15 °C to +70 °C -30 °C to +80 °C					
Materials	GWA4 Housing lower section Switch Switching contact  Diaphragm Hood	aluminium die casting Polycarbonat Standard: Silber (Ag) Optional: gold-plated (Au) silver, suitable for DDC applications: DC 24 V; 0.02 A NBR polycarbonate  aluminium die casting Polycarbonat Standard: Silber (Ag) Optional: gold-plated (Au) silver, suitable for DDC applications: DC 24 V; 0.02 A NBR Extrusion cast zinc, powder-coated					
	GWA4 Housing lower section Switch Switching contact  Diaphragm Hood						
Switching voltage	Ag contact	AC eff.	min. 24 V min. 24 V	max. 250 V max. 48 V			
Nominal current	Au contact Ag contact Au contact	AC eff. DC	min. 5 V 10 A 20 mA	max. 24 V			
Switching current	Ag contact  Au contact	AC eff. AC eff. DC	min. 20 mA min. 20 mA	max. 6 A with cos φ 1 max. 3 A with cos φ 0,6 max. 1 A			
Electrical connection	Standard:	DC min. 5 mA max. 20 mA at screw terminals via cable gland, M20x1.5					
	Special version:	plug connection for line sockets as per DIN EN 175 301-803, 3-pin with protection contact					
Degree of protection	GWA4 GWA4/2	IP 54 to IEC 529 (EN 60529), (clear hood) IP 65 as per IEC 529 (EN 60529), (metal housing)					
Adjustment	With rising pressure an Optional rising or dropp	and installed in a vertical position.  opping pressure adjustment on-site possible.  ange if installation position changes.					
Setting tolerance	±15% switch point devi	iation based on the setpoint and with unit installed in a					

#### Dimensions [mm] GW 500 A4

2.5 x 9 dia. deep for equipment plug as per DIN EN 175 301-803



4 x ø 4.2

for screws M4 ISO 1207, 912

M20 x 1.5 or plug-type connection for cable socket according to DIN EN 175 301-803

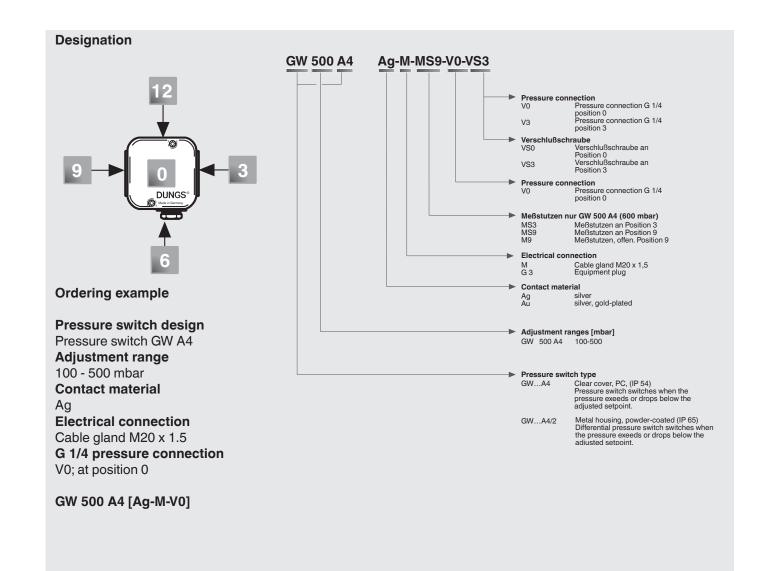
Standard installation position; if a different installation position is used, pay attention to the changed operating points:

GW 500 A4 ca. ± 5 mbar

When installed horizontally, the pressure switch switches at a pressure higher

When installed horizontally overhead, the pressure switch switches at a pressure lower

When installed at an intermediate position, the pressure switch responds if there is maximum upper or lower pressure deviation w.r.t. the set pressure reference value.



Accessories for pressure switches GWA4	Order No.
Kit: G3 equipment plug, 3-pin + E for GWA4	219 659
Line sockets, 3-pin + E grey GDMW for GWA4,GWA4/2	210 318
Fluorescent lamp assembly kit 230 V yellow	231 773
Fluorescent lamp assembly kit 120 V yellow	231 772
Display LED assembly kit 24 V yellow	231 774
Fluorescent lamp assembly kit 230 V green	248 239
Display LED assembly kit 24 V green	248 240
Test nipple G 1/4 with ring seal (5 x)	230 398
Screw plug G 1/4 with ring seal (5 x)	230 396
Double pressure switch assembly kit (not for /2-version)	213 910
Mounting bracket, metal	230 288

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GW 500 A4 GW 500 A4/2



Technical overvi	<b>ew</b> 1 mbar = 100	Pa = 0,1 kPa ≈ 10 ı	mm WS 1 I	$Pa = 0.01 \text{ mbar} \approx 0.$	1 mm WS				
Туре	Version [Ag-M-MS9-V0]	Order No.	Setting range [mbar]	Degree of protection	Differential pressure switch Δp [mbar]				
GW 500 A4 Pressure switch	GW 500 A4	157 060	100-500	IP 54	≤ 10				
Supplied in colletive packaging									
Туре	Version [Ag-M-MS9-V0-VS3]	Order No.	Setting range [mbar]	Degree of protection	Differential pressure switch Δp [mbar]				
GW 500 A4 Pressure switchr	GW 500 A4	221 201	100-500	IP 54 ↑□	≤ 10				
Supplied in colletive packaging									
Туре	Version [Ag-G3-MS9-V0-Ag]	Order No.	Setting range [mbar]	Degree of pro- tection	Differential pressure switch Δp [mbar]				
GW 500 A4 Pressure switch	GW 500 A4	218 270	100-500	IP 54	≤ 10				
Supplied in colletive packaging									
Туре	Version [Ag-M-MS9-V0-VS3]	Order No.	Setting range [mbar]	Degree of protection	Differential pressure switch Δp [mbar]				
GW 500 A4/2 Pressure switch	GW 500 A4	237 804	100-500	IP 65 <b>↑</b> ☐	≤ 10				
Supplied in separate packaging									
Туре	Version [Ag-G3-MS9-V0-VS3]	Order No.	Setting range [mbar]	Degree of protection	Differential pressure switch Δp [mbar]				
GW 500 A4/2 Pressure switch	GW 500 A4	238 572	100-500	IP 65 ↑□	≤ 10				

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

Supplied in separate packaging

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