Differential pressure, vaccum, overpressure switch $20-400$ pascal


## Huba Control

## Case construction

Main case:
fiberglass-reinforced plastic Cover: plastic

## Weight

60 grams (without accessories)

## Installation arrangement

With turn-on point below 30 pascal, diaphragm vertical or horizontal with electrical connections facing downward.
Always indicate installation arrangement

## Pressure connections

Pipe Ø 6.2 mm
Orifice installed for damping pulsating pressure at P2 (option)

## Technical overview

The differential pressure switches of type series 605 are specially designed for control and monitoring applications in gasfired boilers.


The distinct advantages

- Fitting of the switch
- Fast mounting with snapping bracket system
- Adjusting security
- Switchingpoint- and switching difference adjusting screw are secured after factory calibration through covering
- No false manipulation through mounting or service personel
- High contact strength
( 10 cN typical)
- Essentially less susceptibility to polution of contact
- Roll operation of contact surface
- Less sensitive to contact polution through self cleaning effect
- Form of diaphragm and material
- Through use of 2-component silicon longer long-time stability
- Through new trapezoid diaphragm enlargement exact transfer of contact release and therefore exact switching points

Legend to cross-section drawing
1 Diaphragm
2 Contact system
3 Combi-contact
4 Switching point setting (only possible by the manufacturer)
5 Switching difference setting (only possible by the manufacturer)
6 P1 Connection of higher pressure or lower vacuum)
7 P2 Connection of lower pressure or higher vacuum
8 AMP Connectors
9 Contact safety guard
Pressure range / Medium
20 to 400 pascal
(Higher pressures on request)
For air or not aggressive gases

## Maximum overpressure

$<85^{\circ} \mathrm{C}$ : P. permissible $=5000$ pascal
$<110^{\circ} \mathrm{C}$ : P. permissible $=1500$ pascal
Lowest turn-on pressure
20 pascal
Smallest switching difference 8 pascal at a turn-on pressure of 20 pascal

## Reproducibility

Switching point <+/- 1 pascal

## Temperature range

Medium and ambient
temperature $\quad-30 \ldots+110^{\circ} \mathrm{C}$ Higher temperatures on request
Protection class II (EN 60335-1)
Storage temperature $-30 \ldots+110^{\circ} \mathrm{C}$

## Diaphragm

Silicon (LSR)

## Electrical connections

AMP connectors 6.3 mm or 4.8 mm according to DIN 46244 (in connector arrangement DIN 43650)

## Contact system

Changeover switch
Short circuit resistant with fuse protection $\leq 3.15 \mathrm{~A}$ according to DIN 41662, slow-acting

## Contact material / Loading

See graphic.
RC contact cleaner for very small contact loads $22 \Omega, 1 \mu \mathrm{~F}$

## Tests

CE-0085 AP0974

## Protection class

IP 00 without cover
IP 30 with contact safety guard
IP 54 with cover, with PG9/11
IP 65 with cover, with PG9/11 and seal
IP 65 with DIN connector 43650

## Service life

> $10^{6}$ switching cycles

## Accessories

- Fasten clip
- Mounting bracket A
- Mounting bracket B
- Contact safety guard
- Cover PG9/11 IP 54*
- Cover PG9/11 IP 65*
(with seal)
- DIN connector 43650, Pg9/11*
- Orifice for damping pulsating pressure at P1

Accessories can only be supplied
loose (non-assembled).

* with PT screw Ø $3 \times 30$


Adjustable switching differences 20 - 220 Pa
Switching point
above ( Pa )


Switching difference adjustment only inside shaded area:
Example: Upper switching point 220 pascal. Switching difference between 14 and 36 pascal.
Example: Upper switching point 40 pascal. Switching difference between 9 and 30 pascal.
Example: Upper switching point 20 pascal, smallest switching difference 8 pascal.

## The prinicple of high contact pressure

Simplified representation of the new 605 contact system. The high contact pressure results form the optimized length ratios of LC and LD.


LC $=$ Length of contact lever
$L D=$ Length of diaphragm lever

Adjustable switching differences 220 - 400 Pa
Switching point
above ( Pa )


Nominal DC loading limits


Nominal AC loading limits
I (A)


Can also be operated with TTL-load.


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