Type 605 pressure switches are specially developed for use in gas fired heating systems. There are more than 40 million switches in use worldwide. Produced on a fully automated production line. High setting accuracy and repeatability, combined with excellent reliability characterise a quality of switch above the industry norm.

- Fitting of the switch – Fast mounting with snap bracket system
- Adjusting security
- High contact strength (typically 10 cN)
  - Essentially less susceptibility to polution of contact
- Roll operation of contact surface
  - Less sensitive to contact polution through self cleaning effect
- Diaphragm design / material
  - Better long term stability achieved though the use of a 2 component silicon diaphragm.
  - Unique trapezoid diaphragm design provides for a better contact release and therefore a more accurate switching point

OEM Relative and differential pressure switch type 605

Pressure range
20 ... 400 Pa
### Pressure range

Relative and differential: 20 – 400 Pa ¹)

### Operating conditions

**Medium**: Air and neutral gases

**Temperature**:
- Temperature: -30 ... +110 °C
- Storage: -32 ... +110 °C

**Tolerable overload on one side**:
- < 85 °C: 5000 Pa
- +85 ... +110 °C: 1500 Pa

**Smallest turn on pressure of 20 Pa**

### Materials in contact with the medium

**Sensor**: Silicone LSR

**Case**: PC Lexan 500R ²)

### Electrical overview

**Switching load**: See Nominal loading limits

**Contact system**: Changeover switch

**Service life**: Mechanically > 10⁶ switching cycles

**Protection standard**:
- Not mounted: IP 00
- With contact safety guard: IP 30
- With cover, without seal: IP 54
- With cover and seal: IP 65

**Reproducibility**
- Between ± 1 Pa

### Electrical connection

**AMP connector**: 6.3 mm

**Pressure connections**
- Pipe: Ø 6.2 mm

**Orifice installed for damping pulsating pressure at P1, P2 (option)**

### Mounting instructions

**Installation arrangement**: Please indicate installation arrangement

**Mounting**
- With several brackets
- Fastening clip for quick mounting

### Tests / Admissions

**UL**: MFHX2/8 or XAAK2/8

**DVGW**: acc. to DIN EN 1854

**EC type examination certificate**: CE-0085AP0974

**Low voltage directive**: 2014/35/EU

**Gas appliance directive**: 2016/426/EU

### Weight

- Without accessories: ~ 60 g

### Packaging

- Multiple packaging in cardboard:
  - 300 pieces
  - 1200 pieces (4 boxes per pallet)

### Adjustable switching differences

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.

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¹) Higher pressures on request
²) Higher temperatures on request
³) Switching differential is factory-set
⁴) Fiberglass reinforced plastic 10% GF
⁵) According to DIN 46244
Dimensions in mm / Electrical connections

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

Cover with / without sealing and PT screw

Contact safety guard with PT screw Cable exit AMP1 or AMP2

Tolerance of switching point

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

Switching point upwards

Contact pressure (CP) Diaphragm pressure (DP)

CP = DP \( \frac{LC}{LD} \)

LC = Length of contact lever
LM = Length of diaphragm lever
### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover with seal and PT screw</td>
<td>100306</td>
</tr>
<tr>
<td>Cover without seal and PT screw</td>
<td>100307</td>
</tr>
<tr>
<td>Cover with PT screw and cable output AMP-1</td>
<td>100297 + 102981 (PT screw)</td>
</tr>
<tr>
<td>Cover with PT screw and cable output AMP-2</td>
<td>100298 + 102981 (PT screw)</td>
</tr>
</tbody>
</table>

Fastening clip: Thickness of sheet metal 0.8 ... 1.1 mm
Fastening clip (with mounting holes): Thickness of sheet metal 1.8 ... 2.1 mm
Bracket type A: 100295
Bracket type B: 100296
Mounting plate: 106707
Mounting adaptor small: 111233
Mounting adaptor large: 112985
Calibration certificate (at factory set switching points): 104551

### Nominal Loading Limits

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = ohmic</td>
<td>1.0</td>
</tr>
<tr>
<td>2 = inductive</td>
<td>0.7</td>
</tr>
</tbody>
</table>

For AC and DC: Can also be operated with TTL-load.