## Pressure monitor for hot water, steam, gas, fuel (DWR)

DWR

TÜV

SIL2 FUNCTIONAL SAFETY

For overpressure monitoring of steam, hot water, burnable gases, liquid fuels.

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| Kind of pressure | overpressure, relative |
| Pressure connection | internal thread G1/4, external thread G1/2 |
| Electrical connection | Plug DIN EN 175301 |
| Protection class | IP54 |
| Housing material | rugged housing of seawater resistant aluminium die casting GD Al Si 12 |
| Sensing element material | 1.4104 + 1.4571 |
| Media temp. | -25 ... 70 °C |
| Media temp. limit | temperatures up to 85 °C are allowable for short periods. Higher temperatures are possible, provided that the limit is safeguarded by suitable measures (e.g. water tube trap, see Accessories for Pressure Switches / Transmitters) |
| Ambient temperature | -25 ... 70 °C |
| Ambient temp. limit | at temperatures below 0 °C, ensure that no water condensation can arise in the sensor and in the switching device |
| Switch function/capacity | SPDT Microswitch 250 Vac; capacity 5 A inductive, 8 A resistive |
| Mechanical lock/reset | with special function possible |
| Optional functions | add the type numbers below to the listed type numbers for extra functionality as described<br>• **-213**: gold-plated contacts, switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA. And others not available with adjustable switching difference.<br>• **-301**: terminal connection housing, IP65<br>• **-513**: Gold-plated contacts, single-pole switch-over. Switching differential permanent. IP65. Switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA, suitable isolating switching amplifier, degree of protection Ex-i<br>• **-574**: Normally closed contact with resistance combination for minimum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65<br>• **-575**: Normally closed contact with reclosing lock-out resistance combination for minimum pressure monitoring. Housing with surface protection (chemical version), IP65<br>• **-576**: Normally closed contact with resistance combination for maximum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65<br>• **-577**: Normally closed contact with reclosing lock-out and resistance combination for maximum pressure monitoring. Housing with surface protection (chemical version), IP65 |
| Certificates | • ID 0000007042 according VdTUEV Memorandum Pressure 100, Issue 07.2006 and DIN EN 12952-11 and DIN EN 12953-9:2007<br>• TV.DWFS (SDBFS).12-281 according VdTUEV Memorandum Pressure 100, Issue 07.2006 and DIN EN 12952-11 and DIN EN 12953-9:2007<br>• ID 0000035004 according DIN EN 764-7:2002 and DIN EN 13611:2008<br>• CE-0085CL0343 according to DIN EN 1854, Issue 07.2006<br>• 01 202 931-B-11-0003 according Directive 97/23 EC<br>• SIL2 according IEC 61508 |

**Fixed pressure hysteresis**

| Pressure adjustment range bar | Adjustable switching differential bar | Switching differential bar | Max. pressure bar | Allowable max. gas-pressure bar | **Type** |
|---|---|---|---|---|---|
| 0,1 ... 0,6 | – | 0,04 | 6 | 6 | **DWR06** |
| 0,2 ... 1,6 | – | 0,06 | 6 | 6 | **DWR1** |
| 0,2 ... 2,5 | – | 0,1 | 16 | 10 | **DWR3** |
| 0,5 ... 6 | – | 0,2 | 16 | 10 | **DWR6** |
| 0,5 ... 6 | – | 0,25 | 25 | 20 | **DWR625** |
| 3 ... 16 | – | 0,5 | 25 | 20 | **DWR16** |
| 4 ... 25 | – | 1 | 63 | 50 | **DWR25** |
| 8 ... 40 | – | 1,3 | 63 | 50 | **DWR40** |

**Adjustable pressure hysteresis**

| Pressure adjustment range bar | Adjustable switching differential bar | Switching differential bar | Max. pressure bar | Allowable max. gas-pressure bar | **Type** |
|---|---|---|---|---|---|
| 0,1 ... 0,6 | 0,08 ... 0,5 | – | 6 | 6 | **DWR06-203** |
| 0,2 ... 1,6 | 0,15 ... 0,6 | – | 6 | 6 | **DWR1-203** |
| 0,2 ... 2,5 | 0,17 ... 1,2 | – | 16 | 10 | **DWR3-203** |
| 0,5 ... 6 | 0,3 ... 1,4 | – | 16 | 10 | **DWR6-203** |
| 0,5 ... 6 | 0,4 ... 2,5 | – | 25 | 20 | **DWR625-203** |
| 3 ... 16 | 0,75 ... 3,15 | – | 25 | 20 | **DWR16-203** |
| 4 ... 25 | 1,3 ... 6 | – | 63 | 50 | **DWR25-203** |
| 8 ... 40 | 2,3 ... 6,6 | – | 63 | 50 | **DWR40-203** |

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| Syphon for high temperature, steel, U-shape (for more accessories, see Accessories for Pressure Switches / Transmitters) | **U430B** |