

# Pressure Switches, component tested

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

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DWR

TÜV



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

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 <ul style="list-style-type: none"> <li>• <b>-213:</b> gold-plated contacts, switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA. And others not available with adjustable switching difference.</li> <li>• <b>-301:</b> terminal connection housing, IP65</li> <li>• <b>-513:</b> 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</li> <li>• <b>-574:</b> Normally closed contact with resistance combination for minimum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65</li> <li>• <b>-575:</b> Normally closed contact with reclosing lock-out resistance combination for minimum pressure monitoring. Housing with surface protection (chemical version), IP65</li> <li>• <b>-576:</b> Normally closed contact with resistance combination for maximum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65</li> <li>• <b>-577:</b> Normally closed contact with reclosing lock-out and resistance combination for maximum pressure monitoring. Housing with surface protection (chemical version), IP65</li> </ul>
Certificates	<ul style="list-style-type: none"> <li>• ID 0000007042 according VdTUEV Memorandum Pressure 100, Issue 07.2006 and DIN EN 12952-11 and DIN EN 12953-9:2007</li> <li>• TV.DWFS (SDBFS).12-281 according VdTUEV Memorandum Pressure 100, Issue 07.2006 and DIN EN 12952-11 and DIN EN 12953-9:2007</li> <li>• ID 0000035004 according DIN EN 764-7:2002 and DIN EN 13611:2008</li> <li>• CE-0085CL0343 according to DIN EN 1854, Issue 07.2006</li> <li>• 01 202 931-B-11-0003 according Directive 97/23 EC</li> <li>• SIL2 according IEC 61508</li> </ul>

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## 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	<b>DWR06</b>
0,2 ... 1,6	–	0,06	6	6	<b>DWR1</b>
0,2 ... 2,5	–	0,1	16	10	<b>DWR3</b>
0,5 ... 6	–	0,2	16	10	<b>DWR6</b>
0,5 ... 6	–	0,25	25	20	<b>DWR625</b>
3 ... 16	–	0,5	25	20	<b>DWR16</b>
4 ... 25	–	1	63	50	<b>DWR25</b>
8 ... 40	–	1,3	63	50	<b>DWR40</b>

## 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	<b>DWR06-203</b>
0,2 ... 1,6	0,15 ... 0,6	–	6	6	<b>DWR1-203</b>
0,2 ... 2,5	0,17 ... 1,2	–	16	10	<b>DWR3-203</b>
0,5 ... 6	0,3 ... 1,4	–	16	10	<b>DWR6-203</b>
0,5 ... 6	0,4 ... 2,5	–	25	20	<b>DWR625-203</b>
3 ... 16	0,75 ... 3,15	–	25	20	<b>DWR16-203</b>
4 ... 25	1,3 ... 6	–	63	50	<b>DWR25-203</b>
8 ... 40	2,3 ... 6,6	–	63	50	<b>DWR40-203</b>

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

**U430B**