

Pressure Switches, component tested

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

2



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 • -213: gold-plated contacts, switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA. And others not available with adjustable switching difference. • -301: terminal connection housing, IP65 • -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 • -574: Normally closed contact with resistance combination for minimum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65 • -575: Normally closed contact with reclosing lock-out resistance combination for minimum pressure monitoring. Housing with surface protection (chemical version), IP65 • -576: Normally closed contact with resistance combination for maximum pressure monitoring. Gold-plated contacts. Housing with surface protection (chemical version), IP65 • -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 • TV.DWFS (SDBFS).12-281 according VdTUEV Memorandum Pressure 100, Issue 07.2006 and DIN EN 12952-11 and DIN EN 12953-9:2007 • ID 0000035004 according DIN EN 764-7:2002 and DIN EN 13611:2008 • CE-0085CL0343 according to DIN EN 1854, Issue 07.2006 • 01 202 931-B-11-0003 according Directive 97/23 EC • SIL2 according IEC 61508

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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	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

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

U430B