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.

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

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**