



Ex-DWR25

## Ex - DWR

- II 2G Ex d e IIC T6 Gb
- II 1/2D Ex ta/tb IIIC T80 °C Da/Db

Especially suitable as a pressure monitor or pressure limiter for fuel gases (DVGW work sheet G 260) and liquid fuels (e.g. fuel oil), as well as for steam systems according to TRD 604 and hot-water systems to DIN EN12828, systems in accordance to DIN EN12952-11

and DIN EN12953-9. The DWR is used to monitor maximum and minimum pressures. This pressure switch is "of special construction" and has been tested with 2 million operating cycles. TÜV and DVGW tests exist.



SIL 2 according IEC 61508-2

### Technical data

#### Pressure connection

External thread G 1/2 (pressure gauge connection) to DIN 16 288 and internal thread G 1/4 to ISO 228 Part 1 (for gas applications internal thread permissible only up to 4 bar).

#### Switching device

Rugged housing (700) made of seawater resistant die cast aluminium.

#### Materials

Pressure bellows: Material no. 1.4571  
Sensor housing: Material no. 1.4104 Switch housing: GD Al Si 12 (DIN 1725)

#### Mounting position

Vertically upright

#### Ambient temperature at switching device

-20 to +60°C.  
Medium temperature -25 to +60°C. The maximum medium temperature at the pressure sensor must not exceed the permitted ambient temperature at the switching device. Higher medium temperatures are possible provided the above limit values for the switching device are ensured by suitable measures (e.g. siphon).

#### Mounting

Directly on the pressure line (pressure gauge connection) or on a flat surface with two 4 mm Ø screws.

#### Calibration

The DWR series is calibrated for rising pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at rising pressure. The reset point is lower by the amount of the switching differential. (See also page 23, 2. Calibration at upper switching point).

#### Bursting pressure

For all types  $\geq 100$  bar, verified by TÜV test.

**Contact arrangement** Single pole change over switch.

Switching capacity	250 VAC		250 VDC		24 VDC
	(ohm)	(ind)	(ohm)	(ohm)	(ohm)
Ex-d	3 A	2 A	0.1 A		3 A

**Protection class** IP 65, only vertically upright

#### Ex protection

EEx de IIC T6

### Component tested for

#### Steam

Systems according to TRD 604

#### Hot water

Systems according to DIN EN12828

#### Fuel gases

DVGW work sheet G 260

#### Pressure tank

DIN EN764-7

### Function

Pressure monitor or pressure limiter (with external interlock)

### Direction of action

**For maximum and minimum pressure monitoring (DWFS, SDBFS)**

### Sensor

"of special construction" by testing with 2 million cycles.

### Product Summary

Type	Setting range	Switching differential (mean values)	Maximum working pressure	Dimensioned drawing
<b>Switching differential not adjustable</b>				<b>page 21 + 22</b>
<b>Ex-DWR06</b>	0.1...0.6 bar	0.04 bar	6 bar	4 + 15
<b>Ex-DWR1</b>	0.2...1.6 bar	0.06 bar		
<b>Ex-DWR3</b>	0.2...2.5 bar	0.1 bar	16 bar	4 + 18
<b>Ex-DWR6</b>	0.5...6 bar	0.2 bar		
<b>Ex-DWR625</b>	0.5...6 bar	0.25 bar	25 bar	4 + 17
<b>Ex-DWR16</b>	3...16 bar	0.5 bar		
<b>Ex-DWR25</b>	4...25 bar	1.0 bar	63 bar	4 + 16
<b>Ex-DWR40</b>	8...40 bar	1.3 bar		