

## SENSOR MODULE ESS

Sensor Module is designed to be built in Emergency Safety Shower pipe systems (ESS). The module measures all needed parameters to validate, that the installed shower at all times complied with relevant EN-norms (EN15154-1/2/5).

### The module has 4 sensors:

- › Flow switch (on/off)
- › Flow turbine (volume)
- › Pressure (bar)
- › Temperature



## TECHNICAL DATA SENSORS

### Flow switch

Switching function:	Closes at increasing flow opens at decreasing flow Reversing possible
Pressure rating:	PN10
Temperature ranges:	Medium -25...100 °C Ambient -25...70 °C
Electrical data:	Switching current Max 1A Switching voltage Max 230 VAC, 48 VDC
Degree of protection EN 60529:	IP65
Protection class EN 60730-1:	Class II
Approvals:	WRAS/TÜV Rheinland

### Flow turbine

Pressure rating:	PN16
Temperature ranges:	Medium 0...90 °C Ambient 0...70 °C
Tolerance :	±1% scale + 1% measured
Meter:	Hall-Effect-Sensor
Range:	1.....90 l/min (60-5400 l/h)
Approvals:	KTW-BWGL/ACS

## TECHNICAL DATA SENSORS

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### Temperature

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Sensor type:	PT1000 AISI 316L
Pressure rating:	PN25
Temperature ranges:	Medium -40...105 °C Ambient -40...105 °C
Response time:	25°C -> 90°C: ≤ 3s
Approvals:	KTW-WRAS-W270

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### Pressure

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Sensor type:	I2C AISI316L
Pressure:	Range 0-10 Bar Proof Pressure 20 Bar Burst Pressure 50 Bar
Response time:	1ms

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## TECHNICAL DATA SENSOR MODULE

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### Sensor module

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Sensor type:	Brass
Pressure rating:	PN10
Pressure Loss 1" connection:	Kv-Value [m3/h]: 6,4 Kv-Value [l/s]: 1,8
Temperature ranges:	Medium 0...90 °C Ambient 0...70 °C

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## INSTALLATION MEASUREMENT GUIDE

