

Water Pressure Sensor

Types PW3 SV – PW3 RV – PW4 RV

Art.-No. 69.15./
69.25/ 69.26



The transducers PW3 SV, PW3 RV and PW4 RV are sensors for water pressure measurement with a front or ring filter made of geotextile fleece. They are generally used to measure groundwater tables and also pore water pressure. Especially in soils with a high proportion of suspended particles or aggressive water, fleece filters are permanently permeable to water and ensure the monitoring operation.

TECHNICAL DATA

	PW3 SV	PW3 RV	PW4 RV
Dimensions, Ø / length:	30x160 mm	30x225 mm	40x230 mm
Material:	V4A 1.4571	V4A 1.4571	V4A 1.4571
Weight:	450 g	880 g (PW 4 RV)	1700 g (PP 4 RS E, incl. press-in sleeve)
Filter type:	Geotextile fleece	Geotextile fleece	Geotextile fleece
Filter area:	4,5 cm ²	43 cm ²	58 cm ²
Protection class:	IP 68	IP 68	IP 68

Sensor options



AU
69.xx.01



AI
69.xx.02



VW
69.xx.03

AU PIEZORESISTIVE PRESSURE SENSOR, 4-CONDUCTOR SYSTEM

Measuring range* 0 -1 bar / 0 - 2 bar / 0 - 5 bar / 0 - 10 bar / 0 - 20 bar / 0 - 50 bar

*Other measuring ranges or special calibrations are available on request.

Supply: 1 mA (optional 10 VDC)
Output signal: 0 - 250 mV
Accuracy: < 0,1 % f.s.
Nonlinearity: < 0,5 % f.s.
(<0,1 optional)
Overload protection: 1,5-fache f.s.

AI PIEZORESISTIVE PRESSURE SENSOR WITH AMPLIFIER 4....20 MA-TRANSDUCER, 2-CONDUCTOR SYSTEM

Measuring range* 0 -1 bar / 0 - 2 bar / 0 - 5 bar / 0 - 10 bar / 0 - 20 bar / 0 - 50 bar

*Other measuring ranges or special calibrations are available on request.

Supply: 10 - 30 V
Output signal: 4 - 20 mA
Accuracy: < 0,1 % f.s.
Nonlinearity: < 0,1 % f.s.
Overload protection: 1,5-fache f.s.

VW VIBRATING WIRE PRESSURE SENSOR WITH THERMISTOR

Measuring range* 0 - 0,7 bar / 0 - 1,7 bar / 0 - 3,5 bar / 0 - 7 bar / 0 - 10 bar / 0 - 50 bar

*Other measuring ranges or special calibrations are available on request.

Supply (excitation): 60 V im-pulse
Output signal: 2 - 3,3 kHz
Accuracy: < 0,1 % f.s.
Nonlinearity: < 0,5 % f.s.
(<0,1 optional)
Overload protection: 1,5x f.s.