

Piezometer

Types PP3 SS – PP3 RS – PP4 RS

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The sensors PP3 SS, PP3 RS and PP4 RS designate pore water pressure sensors with forehead or ring filters made of sintered metal. They are used to measure the groundwater level, the rock or pore water pressure in all disciplines of the construction industry. For demanding measurement tasks, piezometers with a ring filter are particularly suitable because of their large filter surface which ensures optimal contact with the water-saturated soil.

TECHNICAL DATA

	PP3 SS	PP3 RS	PP4 RS
Dimensions, Ø / length:	30x160 mm	30x225 mm	40x230 mm
Material:	V4A 1.4571	V4A 1.4571	V4A 1.4571
Weight:	450 g	680 g (PW 4 RV)	920 g
Filter type:	Sintered metal	Sintered metal	Sintered metal
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.