

Piezometer

Types PP22 SS – PW22 SW






The pressure sensors PW 22 and PP 22 are used to measure water levels and pore water pressures. The slim design allows installation in boreholes or monitoring wells with a small diameter. For pure water level measurement in open standpipes the PW 22 with a plastic pre-filter is suitable. The PP 22 sensor is equipped with a sintered metal filter on the front and is used for pore water pressure measurements.

TECHNICAL DATA

	PP22 SS	PW 22 SW
Dimensions (Ø / length)	22 × 160 mm	22 × 170 mm
Material	V4A 1.4571	V4A 1.4571
Weight	250 g	240 g
Filter type	Sintered metal	Plastic
Filter area	2 cm ²	2 cm ²
Protection class	IP 68	IP 68

SENSOR-SPECIFIC DATA

Sensor types	 AU Pressure Sensor piezoresistive, 4-wire system	 AI Pressure Sensor piezoresistive, 2-wire system	 VW Pressure Sensor vibrating wire system
Supply	1 mA	15–30 V	VW excitation (pulse, sweep)
Output signal	0–250 mV	4–20 mA	2–3.3 kHz
Standard measuring ranges	0.5 / 1 / 2 / 5 / 10 / 20 / 50 / 100 bar	0.5 / 1 / 2 / 5 / 10 / 20 / 50 / 100 bar	0.7 / 1.7 / 3.5 / 5 / 7 / 10 / 20 / 35 / 70 / 100 bar
Over range	50 % FS	50 % FS	50 % FS
Resolution	± 0.01 % FS	± 0.01 % FS	± 0.01 % FS
Accuracy (laboratory)	± 0.25 % FS	± 0.25 % FS	± 0.25 % FS
Linearity	< 0.5 % FS	< 0.5 % FS	< 0.5 % FS
Temperature range	+5 °C to +80 °C	+5 °C to +80 °C	+5 °C to +80 °C
Thermal zero shift	≤ 0.06 % FS/K	≤ 0.06 % FS/K	≤ 0.06 % FS/K
Temperature sensor	Thermistor (optional)	Thermistor (optional)	Thermistor (standard)
Maximum cable length	1000 m	2000 m	2500 m