

RESISTIVE PIEZOMETER

Description

The resistive piezometer is a pressure transducer, which allows to measure the interstitial pressure in the soil (absolute version) allows to define the piezometric height in the piezometer pipe (relative version). On the inside of the self-supporting cable, a small tube connects the reference room of the sensor with the atmosphere, so that any changes in environmental pressure act on the piezometric surface rather than on the reference room. This allows to measure just the water pressure, and therefore the water level.

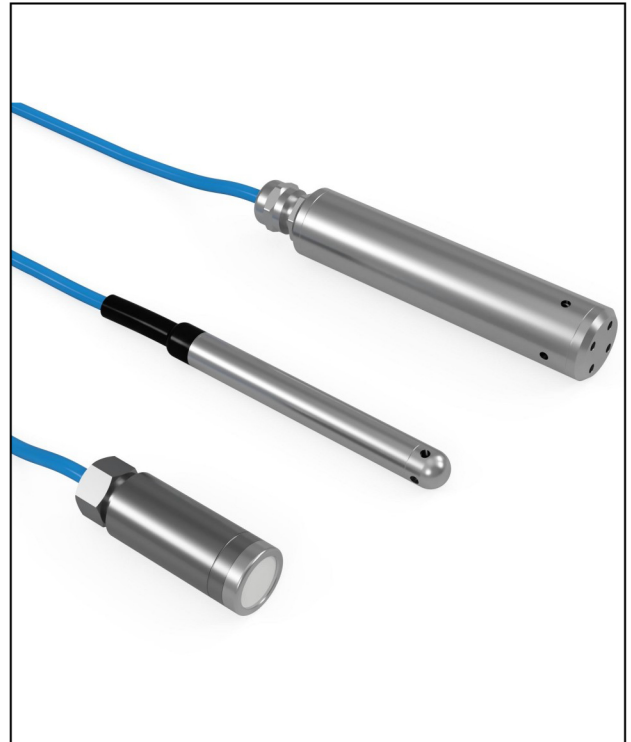
The self-supporting electric cable, is fixed to the piezometer casing, allowing to introduce and recover it without problems. Compact and robust execution and excellent quality components make this level gauge a unique tool for controlling and monitoring water levels in piezometers, in wells, pits, canals, tanks, rivers, lakes, etc.

Is available a miniature level 14 mm diameter sensor, suitable for installation inside Casagrande piezometer.

Data can be read by using a portable control unit or an automatic data acquisition system designed for continuous monitoring.

Applications:

- Interstitial pressure measurement
- Water level measurement inside piezometers
- Water level measurement inside wells, tanks and reservoirs
- Water level measurement inside canals, rivers and lakes



Features

- Absolute or relative pressure measurement
- Reliability on long time monitoring
- High resolution and accuracy
- Degree of protection IP68
- Stainless steel sturdy construction
- Sensor version also with 14 mm diameter
- Possibility to transmit the signal also over long distances

Technical Specifications

	14 mm diameter	21 mm diameter	24 mm diameter
Sensor Type	piezoresistive	piezoresistive	piezoresistive
Application	absolute and relative version	absolute and relative version	absolute and relative version
Cable	self-supporting , PUR external shieth, with internal tube	self-supporting , PUR external shieth, with internal tube	self-supporting , PUR external shieth, with internal tube
Measurement	from 20 to 100 water meters	from 5 to 100 meters water	from 20 to 100 water meters
Overpressure	100% F.S.	100% F.S.	100% F.S.
Output Signal	mV/V (not amplified)	4-20 mA, 2 wires	mV/V (not amplified)
Power	5 Vdc	8...32 Vdc	5 Vdc
Total Accuracy	+/-0,5% F.S.	+/-0,25% F.S.	+/-0,5% F.S.
Long term stability	2 mbar (1 cm water)	2 mbar (1 cm water)	2 mbar (1 cm water)
Operating temperature	-20.....+80 °C	-20.....+80 °C	-20.....+80 °C
Degree of protection	IP68	IP68	IP68
Dimensions	diam. 14 mm - length 110 mm	diam. 21 mm - length 75 mm	diam. 12 mm - length 110 mm
Material	stainless steel	stainless steel	stainless steel

Accessories and spare parts

- Cut to size electric cable
- Ventilated junction box

Please specify

CODE	DESCRIPTION
PEP-100	Piezo-resistive piezometer, diameter 21 mm
PEP-102	Signal cable vented 2 wires
PEP-214	Piezo-resistive piezometer, diameter 14 mm
PEP-292	Signal cable vented 2 wires
PEP-300	Piezo-resistive piezometer, diameter 24 mm
PEP-302	Signal cable vented 2 wires



For further information

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