

## 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.

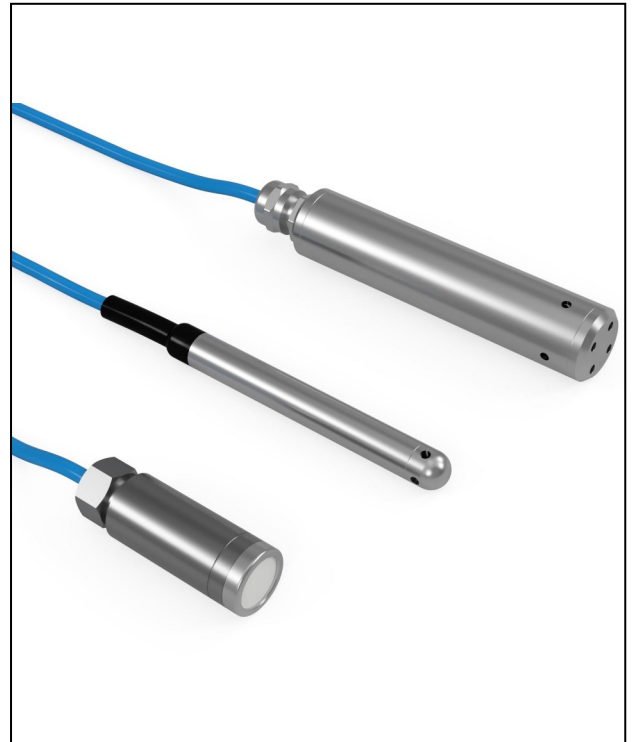
The self-supporting electric cable, is fixed to the piezometer casing, allowing to introduce and recover it without problems. Compact and robust execution and excellent quality components make this level gauge a unique tool for controlling and monitoring water levels in piezometers, in wells, pits, canals,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

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