

WATER LEVEL LOGGER

Description

IThe resistive piezometer is a relative pressure transducer, which allows to define the piezometric height by measuring the hydrostatic pressure that acts on the sensor. 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 contemporarly on the piezometric surface rather than on the reference room: this allows to measure just the water pressure, and therefore the water level.

In the integrated logger version, a data acquisition board provides automation and storage of measurements. The sensor is made of two parts connected by a cable of variable length based on the installation depth. The lower part, where the sensor and the circuit board are located, is cylindrical in shape, with a diameter of 21 mm and a length of 75 mm . The upper part, of a different shape according to the installation requirements, contains the connector for interfacing with your computer. Gestecno supplies a miniature level 12 mm diameter sensor, suitable for installation inside Casagrande piezometer.

The exceptional autonomy, due to the very low power consumption (with a range of one hour, the battery life is over 2-3 years), the enormous storage capacity, 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.

Applications

- Control of ground water level in standpipe and Casagrande piezometers
- Control of ground water level in canals, rivers, lakes, wells, reservoirs, springs, etc.



Features

- Reliability also for long term monitoring
- Atmospheric pressure compensation
- Powered by low consumption battery
- High resolution and accuracy
- Degree of protection IP68
- Sensor also available in 12 mm diameter
- Easy and intuitive software interface

Sensor Technical Specifications

	24 mm diameter sensor	14 mm diameter sensor
Sensor type	piezoresistive	piezoresistive
Range	10, 20, 35, 70, 100 m water	35 m, 70 m water
Pressure measurement	absolute and relative pressure	absolute and relative pressure
Resolution	1 mm	2 mm
Total accuracy	< 0.25% F.S.	< 0.5% F.S.
Operating temperature	-10+40 °C	-10+40 °C
Dimensions	24 mm diameter — 100 mm length	12 mm diameter — 110 mm length
Material	stainless steel	stainless steel

Datalogger Technical Specifications

Type of memory and capacity	non volatile - 16.000 measurements with date and hour	
A/D Converter	16 bit	
Power	lithium battery 3.6V	
Connection Cable Interface	USB	
Measuring range	from 2 sec. to 24 hours programmable	
Resolution	1 mm	
Dimensions	30 mm diameter —250 mm length	
Material	stainless steel	

Accessories and spare parts

- Battery kit
- Piezometer support
- Software kit and USB cable
- Cut to size signal cable

Please Specify

CODE	PRODUCT DESCRIPTION	
PED-100	Water level logger (vented),	
	diameter 24 mm	
PED-300	Water level logger (vented),	
	diameter 14 mm	
PED-400	Signal cable (please specify lengh)	
PED-500	Software and USB cable	



For further information:

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