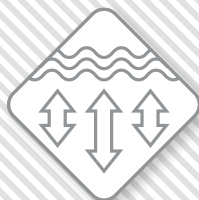




LEA_EN_PZL5001001



Water level Meter

www.pizzi-instruments.it
Instruments and Systems for Geotechnical and Structural Monitoring

LEA_EN_PZL5001001

Water level Meter



Description

This instrument is used for the measurement of water levels in wells or in piezometric pipes.

The system includes :

- A probe provided with two contacts in conductive material insulated by a special drip edge.
- An additional head for the weighting of the probe.
- An inextensible cable with flat or round shape (flat with millimeter or centimeter graduation, according to model).

The model with flat cable has a maximum external diameter of 12 mm and can be used together with all piezometric pipes normally in use.

Smaller diameter head(10mm) can only be supplied with the circular cable model.

In special cases, it is possible to mount an additional series

of weights on the same cable as the probe, in addition to those normally supplied.

We currently produce 3 series of water level meters – each can be provided with different cable lengths:

- **Water Level Meter with flat cable and graduations at 1 millimeter intervals**
- **Water Level Meter with round cable and graduations at 1 centimeter intervals**
- **Water Level Meter with circular cable and temperature sensor**

The Water Level Meter is an instrument which is always reliable over time and does not require particular maintenance, except for replacement of low batteries. The model with temperature sensor has two 9V batteries while other models have one 9V battery.

Applications

The water level meter is used to measure groundwater levels in wells, open pipe or Casagrande piezometers.

The instrument is mainly used in:

- Dams
- Galleries
- Landslides
- Wells
- Boreholes
- Diaphragms
- Roadworks
- Hydrological, geotechnical and structural monitoring
- Various



Water level meter

Features and benefits

- Immediate measurements
- Any atmospheric conditions
- Easy to use
- Low cost
- Rugged and robust design

Measuring principle

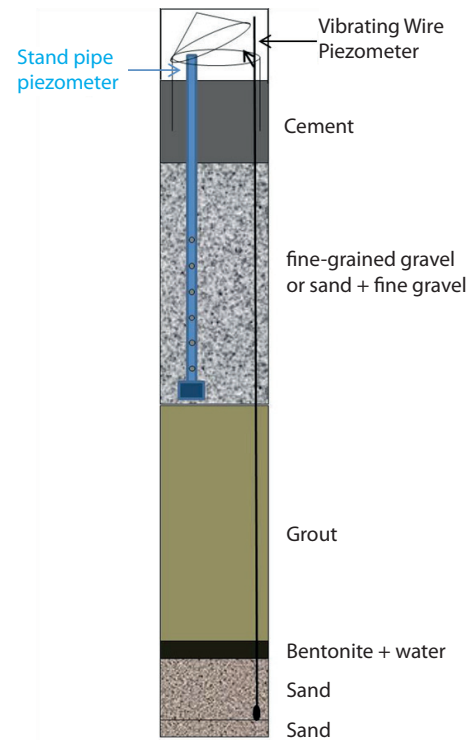
The principle is simple; an electric cable with two conductors is lowered into a well or borehole until it enters into contact with the water surface to be measured.

On the head is the probe which acts as a weighting body for the cable and the element that touches the water. Once contact has occurred, the water short circuits the two final pins of the probe.

This short circuit is detected by an acoustic device with suitable battery located at the other end of the cable, housed in the cable reel.

The connection cable is inextensible and graduated in centimeters (or in millimeters for the model with flat cable tape).

When the probe head enters into contact with the water, an acoustic signal warns the operator and at that moment, it is possible to detect by direct reading of the cable, the depth at which contact occurred, determining the depth of the water surface and thus its level.



Technical assistance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

Technical specifications

Flat Cable Model – ID: PZL5201xxx

Cable lenght	Probe OD	Made of cable reel	Diameter cable reel	Weigth	Battery
20 m	12 mm	PVC	25 cm	1,5 kg	9 V
30 m	12 mm	PVC	25 cm	2 kg	9 V
50 m	12 mm	PVC	25 cm	2,5 kg	9 V
100 m	12 mm	PVC	25 cm	3,5 kg	9 V
150 m	12 mm	Metallo	32 cm	5,5 kg	9 V
200 m	12 mm	Metallo	32 cm	6,5 kg	9 V
300 m	12 mm	PVC	49 cm	14 kg	9 V
400 m	12 mm	PVC	49 cm	16 kg	9 V
500 m	12 mm	PVC	49 cm	18 kg	9 V

Round Cable – ID: PZL5301xxx

Cable lenght	Probe OD	Made of cable reel	Diameter cable reel	Weigth	Battery
30 m	12 mm	PVC	25 cm	1,5 kg	9 V
50 m	12 mm	PVC	25 cm	2 kg	9 V
100 m	12 mm	PVC	25 cm	3 kg	9 V
150 m	12 mm	Metallo	32 cm	5 kg	9 V
200 m	12 mm	Metallo	32 cm	6 kg	9 V
300 m	12 mm	PVC	49 cm	13 kg	9 V
400 m	12 mm	PVC	49 cm	15 kg	9 V
500 m	12 mm	PVC	49 cm	17 kg	9 V

Rounded Cable + Temperature Sensor – ID: PZL5401xxx

Cable lenght	Probe OD	Made of cable reel	Diameter cable reel	Weigth	Battery
30 m	12 mm	PVC	25 cm	1,5 kg	2 x 9 V
50 m	12 mm	PVC	25 cm	2 kg	2 x 9 V
100 m	12 mm	PVC	25 cm	3 kg	2 x 9 V
150 m	12 mm	Metallo	32 cm	5 kg	2 x 9 V
200 m	12 mm	Metallo	32 cm	6 kg	2 x 9 V
300 m	12 mm	PVC	49 cm	13 kg	2 x 9 V
400 m	12 mm	PVC	49 cm	15 kg	2 x 9 V
500 m	12 mm	PVC	49 cm	17 kg	2 x 9 V

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The product information may be subject to variations at any time.
Please carefully check the release and contact Pizzi Instruments for further details.

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