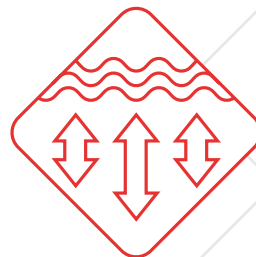


Float type Level meter



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Instruments and Systems for Geotechnical and Structural Monitoring

Float type Level meter



Description

The float level meter is mainly used for measuring the water level in channels, for the collection of leaks, in earthfill, concrete and RCC dams. A float of suitable shape and size follows the variations in level upstream of a weir; a LVDT extensometer is connected to the float and automatically measures its vertical movement, that is the variation of level.

Level meters are available with ranges of 100mm, 200mm, 300mm; other ranges customizable on request.

Applications

Level measurement in open channels is widely used and applied in environmental and geotechnical fields. In particular, measurement of the water level in earth or concrete dams, it is one of the most important indicators of the health of the structure.

Other typical applications for this instrument are level measurement in:

- Dams
- Leak collection channels
- Tanks
- Others

Features and benefits

- High resolution and sensitivity
- High speed measurement
- Measurement in real time
- Not sensitive to atmospheric disturbances

- Easy to use
- Long life of the system
- Wide variety of measurement ranges
- Automatic measurement possible

Measuring principle

In a channel the weir causes a variation of the water level upstream which is directly proportional to the variation of flow rate.

The measurement of the level can be performed with different systems; we propose the float type level meter.

The system consists of linear extensometer, LVDT type, connected with a float; each movement of the float, free to move with the water level, is detected by the sensor that measures the extent.

The system is composed of:

- Weir with overflow section (triangular, rectangular or other)
- LVDT linear transducer (or other on request)
- Float
- Support for fitting the device



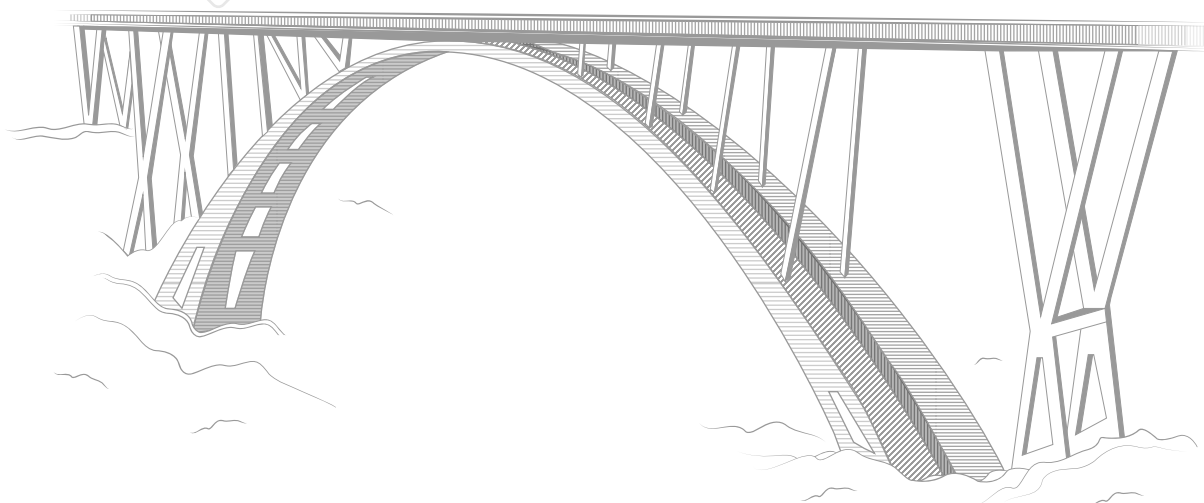
Technical specifications

Sensor	LVDT, Potentiometer, Magneto-restrictive
Range	100 mm; 200 mm
No linearity	0,25% f.s.
Output	4-20 mA
Operating temperature	-55 ÷ 150 °C
Material	AISI 304
Floating level	Stainless steel
Sizes	Φ = 100 mm; h = 80 mm
Accuracy (sensor / floating)	±1 mm

The Company

For over 40 years we have been producing precision and large facility monitoring instruments sold throughout the world.

Accuracy in design, efficiency in construction, reliability in management; these are the prerogatives that every major work must have and that Structural Monitoring Systems must guarantee.



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.

All data present in the sheets could change without notice.

Please check the release carefully and for more details contact Pizzi Instruments.

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