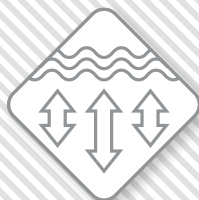




LEA_EN_PZL7601000



Floating Leakage level Measuring

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

LEA_EN_PZL7601000

Floating Leakage level Measuring



Description

Floating leakage (level) is mainly used for measuring the water level in channels for the collection of leaks in dams, in earth, concrete or RCC. A float of suitable shape and size follows the variation in flow 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; and other customizations on request.

Applications

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

Other typical applications for this instrument are level measurements in:

- **Dams**
- **Spillways**
- **Tanks**

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**
- **Possibility of automated measurements**

Measuring principle _____

In a channel, a weir causes a variation in water level upstream which is directly proportional to the variation in flow rate. Level measurement can be performed with different systems; we offer the "float system".

This is in particular of a linear extensometer sensor, associated with a float carrying on the top end of a bar, with this integral, which serves as the mobile element of the extensometer.

In this case it is composed of a linear extensometer sensor linked to a float which serves as the mobile element of the extensometer.

Each movement of the float, which freely follows the water level, is transferred communicated to the sensor that detects the float

Lo strumento è composto da:

- **Weir of known overflow section** (triangular, rectangular or other)
- **LVDT linear transducer** (or other on request)
- **Float**
- **Application and support device**



Technical features

Sensor	LVDT , potentiometer, magnetostrictive
Range	100mm;200mm
No linearity	0,25% f.s.
Output signal	4-20mA (directly or using a converter signal)
Working temperature	-55 ÷ 150°C
Material	AISI 304
Floating	Stainless steel
Size	Φ = 100 mm; h = 80 mm
Precision obtainable (sensor / floating)	±1mm

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.

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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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