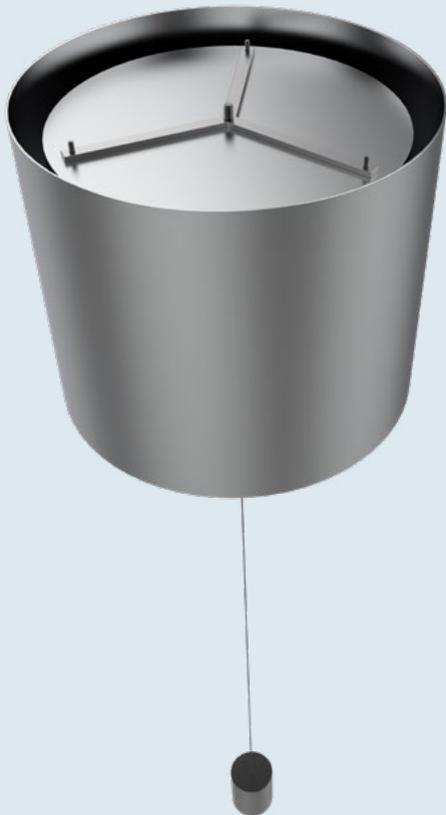


# IN950

## Inverted pendulum



### Description

The inverted pendulum IN950 is an instrument able to measure with great sensitivity the rotations of structures, caused by disruptions of any nature. Based on the plumb line principle, the instrument is able to control rotations on measurement bases, according to the needs.

The pendulum consists of a damping tank, a float, a wire or a rod and an anchor (ballast). It is particularly indicated for the control of the rotations of a structure with respect to a deep and fixed point of the ground, in which the anchorage point is positioned. This tool is suitable for all those applications where the anchor point is not accessible.

The measuring system consists of inductive or laser sensors, positioned orthogonally in the damping tank. On request, sensors are available which, placed at various points along the shaft, measure the possible variation of the position of the rod itself.

Every sensor is provided with a calibration certificate that attests the results of the test performed and all electromechanical features.

Manual read out with DATAVIEW.

Automatic read out with MINILOG, MYLOG.

Readout units with NATUN.

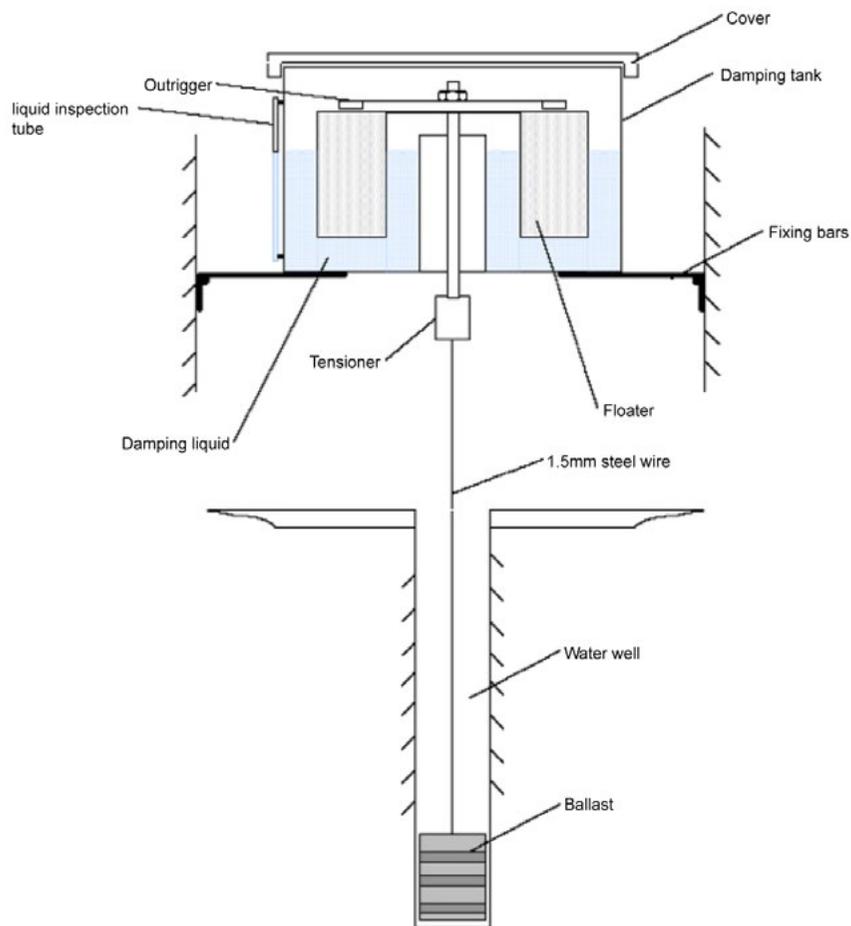
### Applications

Rotation measurement in dams, bridges, viaducts, bell towers, buildings etc.



# IN950

## Inverted pendulum



### Technical features

<b>Tank</b>	<b>IN950-VS</b>	
Material	Stainless Steel	
Dimension	Ø600x500 mm	
<b>Floater</b>	<b>IN950-GL</b>	
Material	Stainless Steel	
Dimension	Ø520x420 mm	
Wight (tank+floater)	40Kg	
<b>Rod</b>	<b>IN950-AS-MM**</b>	
Material	Stainless Steel	
Diameter	Ø3mm	
Available lengths	0,5, 1, 2 mt	
<b>Protection tube</b>	<b>IN950-TU</b>	
Material	PVC	
Dimension	Ø120mm Sp. 3mm	
<b>Anchor* (standard)</b>		
Material	Stainless Steel + Lead	
Dimension	Ø 200x150mm	
<b>Sensor</b>	<b>IN950-SE-IN</b>	<b>IN950-SE-LA</b>
Type	Inductive	Laser
Range	8 mm	20 mm
Supply	+15 ÷ 30V	±15V
Consumption	40mA	<120mA
Output	4-20mA	
Linearity	400 µm	0.04% FS
Repeatability	<15µm	0.02% FS
Operating temperature	-10 ÷ 70°C	-20 ÷ 50°C
Protection	IP67	IP65
Weight	0.200Kg	0.920Kg

### Accessories

<b>Connecting rod connection</b>	<b>IN950-RS-M3</b>
<b>Upper rod stopper</b>	<b>IN940-FA</b>
<b>Liquid (mineral oil)</b>	<b>IN950-OL-LT***</b>
<b>Floating adjustment bar</b>	<b>IN950-BR-03</b>

- \* The anchor dimensions change depending on the installation  
 \*\*MM Indicate the rod length  
 \*\*\*LT Indicate the quantity