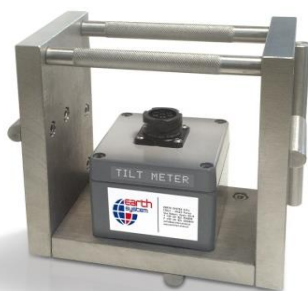


TECHNICAL FEATURES

- ✓ Type of sensor: uniaxial electrolytic;
- ✓ Measuring range: +/- 10°;
- ✓ Repeatability: <-0.01% F.S.;
- ✓ Power supply: 5 V DC;
- ✓ Output: from -2.5 to 2.5 V CC;
- ✓ Operating temperature: from -40°C to +85°C;
- ✓ Material: structure in stainless steel and tiltmeter case in painted aluminium;
- ✓ Type of installation: horizontal and vertical.



Measuring plate is teflon coated to ease tiltmeter positioning. Low thermal expansion coefficient, good heat resistance, abrasion resistant.



Tiltmeter and stainless steel structure.

CE product compliant with

The portable tiltmeter measures tilt in horizontal or vertical surfaces. It consists of a case in painted aluminium housing 2 electrolytic tilt sensors placed orthogonally. It is mounted on a stainless steel structure. The instrument mechanical features allow for perfect positioning on the measuring plate. The plate is fixed using either epoxy or mechanical anchors onto the surface to be monitored.

The readings are carried out by placing the portable tiltmeter directly onto the plate's centring pegs, and then by simply rotating the instrument at 90° in two orthogonal directions. Possible system errors or measuring plate positioning errors can be detected by taking mirror measurements, i.e. by rotating the sensor at 180° on each measuring axis

and comparing readings.

The portable tiltmeter is used to monitor through manual measurements the rotation of structures such as buildings and retaining walls. Specifically, it can be used for the following activities:

- monitoring buildings damaged by landslides or earthquakes;
- checking the rotation of diaphragms during excavations;
- monitoring retaining walls, bridges and embankments;
- monitoring towers and bell towers.

DIMENSIONS		
Tiltmeter (structure)	dimensions L/w/h (mm)	150x90x150
	weight (kg)	5,5
Plate	dimensions L/w/h (mm)	142 x 62 x 24
	shape	circular