

## TECHNICAL FEATURES

- ✓ Type of sensor: biaxial MEMS;
- ✓ Measuring range: +/-10°, +/20°, +/-30°;
- ✓ Resolution: 0.001°;
- ✓ Accuracy; +/- 0.25% F.S.;
- ✓ Non linearity: <0,25% F.S.;
- ✓ Power supply: 12-15 V DC;
- ✓ Output signal: digital;
- ✓ Operating temperature: from -40° to +80°C;
- ✓ Thermal drift: 0.1%/°C;
- ✓ Type of installation: vertical;
- ✓ Protection level: IP68.



The borehole fixed probe is used for constant monitoring of landslides, slopes, retaining structures and embankments.

It is placed at set depth inside inclinometer tubes fixed in the ground or onto structures where rotation needs to be measured.

It is a high precision instrument with limited measuring field. It is made up of a cylindrical stainless steel body having 2 sensors, one for the x axis and one for the y axis. The output signal is proportional to the instrument tilt angle.

The MEMS sensor operating principle ensures good thermal and linear stability.

This technology ensures high resistance to accidental shocks. The sensors are sealed in resin and bear high pressure a conditions.

A system of fixed inclinometers is made up of several probes installed inside an inclinometer tube to measure the size of local and integral movements along the entire tube.

We reserve the right to carry out modifications to our products and their specifications



product compliant with European directives

## DIMENSIONS

probe material	AISI 316 steel
probe dimensions	diameter 30 mm, length 1400 mm
slider pitch	1000 mm
slider material	AISI 316 steel

Earth System srl - Via Artigianato 5/a  
43022 Montechiarugolo - Parma

tel. +39 0521 394595  
e-mail: [info@earthsystem.it](mailto:info@earthsystem.it)

company quality management  
system certified according to UNI EN  
ISO9001:2015

