

TECHNICAL FEATURES

- ✓ Type of sensor: biaxial electrolytic;
- ✓ Measuring range: +/-5°, +/- 10°, +/-14.5°;
- ✓ Resolution: 6°x10⁻⁶;
- ✓ Repeatability: 0.015% F.S.;
- ✓ Power supply: 12/24 V DC;
- ✓ Output signal: RS485 mode;
- ✓ Operating temperature: from -40° to +80°C;
- ✓ Thermal drift: 0.1%/°C;
- ✓ Type of installation: vertical;
- ✓ Protection level: IP 68;
- ✓ Temperature sensor integrated. NTC.



The borehole fixed digital 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 whose 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 1 electrolytic biaxial sensor, whose x and y axes are orthogonal to each other. The output signal is proportional to the tilt angle.

The output signal is RS485 digital. The digital RS485 signal offers the advantage of simplifying the cabling with

one single 4 wire cable for communication and supply to each sensor.

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.

All instruments are connected in series directly to the datalogger which has a digital RS485 communication port.

DIMENSIONS

probe material	AISI 316 steel
probe dimensions	30 mm body, 1200 mm total length
slider pitch	1000 mm
slider material	AISI 316 steel

CE product compliant with European directives

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

tel. +39 0521 394595
e-mail: info@earthsystem.it

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

