

## TECHNICAL FEATURES OF THE INCLINOMETER SENSOR

- ✓ Type of sensor: biaxial MEMS;
- ✓ Measuring range: +/- 15°, +/- 30°;
- ✓ Power supply: 24 V DC;
- ✓ Output signal: +/-4 V DC;
- ✓ Resolution: 0.001°;
- ✓ Accuracy: +/- 0.25% F.S.;
- ✓ Non linearity: <0.5% F.S.

## TECHNICAL FEATURES OF THE EXTENSOMETER SENSOR

- ✓ Type of sensor: high performance contactless displacement transducer;
- ✓ Measuring range: +/- 50 mm;
- ✓ Power supply: 24 V DC;
- ✓ Output signal: 0-10 V DC;
- ✓ Resolution: 0.01 mm;
- ✓ Accuracy: <+/- 0.25% F.S.;
- ✓ Non linearity: <0.5% F.S.

## TECHNICAL FEATURES OF THE TEMPERATURE SENSOR

- ✓ Type of sensor: NTC;
- ✓ Measuring range: -55°C +150°C;
- ✓ Resolution: 0.1°C;
- ✓ Accuracy: +/- 0.5°C.



Installed at pre-set depth inside extensometer-inclinometer tubes, the extensometer-inclinometer fixed probe is designed to take altimetric and planimetric readings.

The instrument consists of a cylindrical body in stainless steel with sliders for positioning inside the tubing. 2 tilt sensors orthogonal to each other and a contactless displacement transducer are set inside the instrument.

The inclinometer sensor detects the rotation of the tube at the depth where the probe is installed, thus allowing to measure the inclination on the horizontal plane.


The displacement transducer detects local movements (along the main axis of the probe) of the magnetic reference ring fastened to the outside of the extensometer-inclinometer tube

and tight onto the structure/ground onto which it is cemented.

One or more probes can be installed in the same inclinometer tube.

These instruments are used for continuous monitoring of settlement and tilt of the extensometer-inclinometer tube. They are applied especially in landslides and unstable slopes, rock masses, tunnel excavations, dams, foundation posts, bullheads and embankments.

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

 product compliant with

| DIMENSIONS OF THE PROBE |  |
|-------------------------|--|
| Case material           | AISI 316 stainless steel                                 |
| Probe dimensions        | diameter 30 mm, length 1400 mm                           |
| Slider pitch            | 100 mm   |
| Slider material         | AISI 316 stainless steel with fibre wheels 1000 mm pitch |
| Maximum diameter        | 38 mm  |
| Maximum length          | 1230 mm  |