

TECHNICAL FEATURES OF INCLINOMETER SENSOR

- ✓ Sensor type: MEMS technology;
- ✓ Type of sensor: biaxial/uniaxial;
- ✓ Measuring range: +/- 15°, +/- 30°;
- ✓ Power supply: 24 Vdc;
- ✓ Signal output: +/-4 Vdc;
- ✓ Resolution: 0.001°;
- ✓ Accuracy: +/- 0.25% F.S.;
- ✓ Non linearity: <0.5% F.S.

TECHNICAL FEATURES OF SETTLEMENT SENSOR

- ✓ Sensor type: high performance contactless displacement transducer;
- ✓ Measuring range: +/- 50 mm;
- ✓ Power supply: 24 Vdc;
- ✓ Signal output: 0-10 Vdc;
- ✓ Resolution: 0.01 mm;
- ✓ Accuracy: <+/- 0.25% F.S.;
- ✓ Non linearity: <0.5% F.S.

OF TEMPERATURE SENSOR

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



The extenso-inclinometer probe is designed to take plano-altimetric measurements within casings installed at predetermined depths.

The instrument consists of a cylindrical body in stainless steel with slide units allowing it to be positioned in the casing, which houses two inclinometer probes, square to each other, and a contact-free linear displacement transducer.

The inclinometer sensor detects tube rotation at probe installation depth, thereby allowing displacement on the horizontal plane to be calculated.

The displacement transducer detects

local displacements (along the main axis of the casing) of the magnetic reference ring, embedded in the structure/soil to which it was cemented when the extenso-inclinometer casing was installed.

Several probes can be installed in the same casing.

These instruments are used for the continuous monitoring of adjustment and inclination stretches of extenso-inclinometer casing, especially find application in landslides and unstable slopes, rock mass, excavation of tunnels, dams, foundation piles, bulkheads and embankments.

DIMENSIONAL SPECIFICATIONS OF THE EXTENSO-INCLINOMETER PROBE

casing material	AISI 316 stainless steel
probe dimensions	diameter 30 mm, lenght 1400 mm
slide unit pitch	100 mm
slide unit material	AISI 316 stainless steel with 1000 mm pitch and fibre wheels
maximum diameter	38 mm
maximum lenght	1230 mm