

TECHNICAL FEATURES SENSOR

- ✓ Operating principle: MEMS;
- ✓ Type of sensor: biaxial;
- ✓ Power supply: double +/- 12 V DC;
- ✓ Full scale: +/- 15°, +/- 30°;
- ✓ Resolution: 20'000 or 25'000 sin α .
- ✓ Non linearity: <0,1% F.S.;
- ✓ Total accuracy of system: +/- 3mm/30m;
- ✓ Output impedance: 100 Ω +/- 5.

TECHNICAL FEATURES DEDICATED DATALOGGER

- ✓ Display: LCD backlight;
- ✓ Keyboard: with 5 multi-function keys;
- ✓ Acquisition key: external;
- ✓ Battery charger: external;
- ✓ Autonomy: 12 hours;
- ✓ Holder: in ABS;
- ✓ Battery: 6 V 4 Ah;
- ✓ Connectors: Amphenol;
- ✓ Driver: for WIN2000/XP/VISTA/7.



This measuring system is used for monitoring landslides, dams, earth retaining works, excavations, unstable slopes, banks and, more generally, for measuring horizontal earth movements.

Inclinometric measurement is obtained by inserting a probe with high-precision MEMS sensors into an inclinometer casing in a vertical borehole.

This allows the casing's angle of slope to be established as well as the horizontal

earth movement over time.

The inclinometric system consists of an inclinometric probe equipped with a MEMS sensor, a dummy probe to establish the condition of borehole, a graduated measuring cable and casing clamp witch, positioned at the top of the borehole, allow the measurements to be taken.

PROBE FEATURES

Body	stainless steel, diameter 30 mm
Weight	1.85 kg
Wheels	on bearing
Compatible	with ABS/PVC pipe inside diameter 72 mm
Pitch	1000 mm
Connector	conforms with MIL C26482
Arms	Breakable with 65 Kg force

CABLE SPECIFICATIONS

Material	Polyurethane sheath
Anti-twist sheath	in stainless steel
Sheath Anti-torsion	on bearing
Steel core	2.5 mm diameter
Conductors	6 x 0.5 mm tinned copper
Measurement notches	crimped, in tin-plated copper every 50 cm, with meter reference every 10 notches
Ultimate tensile strength	600 kg
Cable reel	on wheels, diameter 40 cm

DATALOGGER FEATURES

Weight	2.85 Kg
Dimensions	28 x 26 x 12 cm