

SENSOR TECHNICAL FEATURES

- ✓ Measuring range: +/-50 mm;
- ✓ Accuracy: 0.2 mm;
- ✓ Resolution: 0.01 mm;
- ✓ Thermal drift: 0.005% F.S./°C;
- ✓ Power supply: 24 V DC.

TECHNICAL FEATURES OF THE READING DEVICE

- ✓ Battery: Lithium ions 4000 mA;
- ✓ Continuous operating time: up to 30 hours;
- ✓ Operating time in stand by: up to 38 days;
- ✓ Display: 4.7";
- ✓ Memory: 16 Gb expandable;
- ✓ Dimensions: 146.0x74.4x12.6 mm;
- ✓ Weight: 200 g.



The bluetooth portable extensometer system is used to perform incremental measurements using inclinometer tubes and magnetic rings.

The reference probe is 1470 mm long, and it houses two high precision linear sensor potentiometers.

To take the measurement, the probe's lower sensor must be positioned at the center of a magnetic ring - set externally to the inclinometer tubing. By reading of the magnetic field, the upper sensor measures the distance from the center of the upper magnetic ring.

The system comprises of a gauge, a smartphone, and connecting cable on a reel.

Used in vertical installations, it measures the differential ground

subsidence or bulging caused by caving, construction of a tunnel or embankment.

Used in horizontal installations, it measures extrusion deformation of the tunnel face and the extent of the differential failures in bulkheads.

Combined with the inclinometer, this strain measuring system provides reading of three dimensional deformation of the ground being observed over time.

GAUGE TECHNICAL FEATURES

Body	Stainless steel and aluminium. Maximum diameter 38 mm, length 1470 mm
Wheels	on bearings
Compatibility	with tube ABS / PVC inner diameter mm 60
Distance between sens	1000 mm
Connector	Compliant MIL C26482
Anchors	break by applying 650 N strength

CABLE TECHNICAL FEATURES

Material	Polyurethane jacket
Diameter	5.5 mm
Core	in Kevlar
Conductors	4 x 0.35 mm tinned copper
Crimped graduated	in tinned copper every 50 cm
Tensile strength	180 kg
Autonomy	>5 hours

We reserve the right to carry out modifications to our products and their specifications without

CE product compliant with European directives