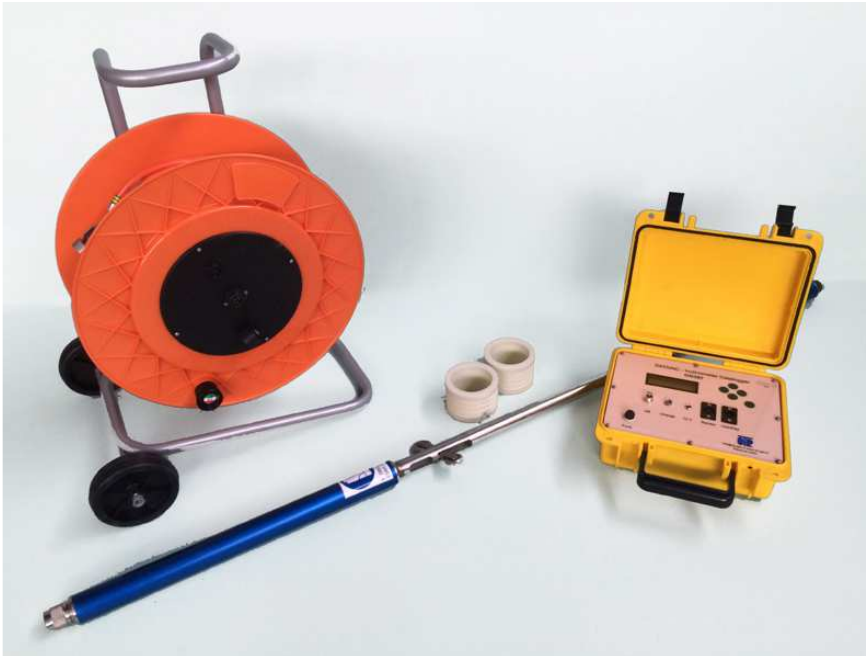


Incremental Extensometer



Applications

The Incremental Extensometer is an instrument designed for monitoring:

- Landslides
- Unstable Slopes
- Deformation of rock masses
- Tunnels excavations
- Bulkheads and levees
- Dams

Technical features

The Incremental Extensometer allows to measure a vertical component of the movement. In order to complete a 3D positioning in the space of the inspected casing the same must be measured by a traditional inclinometer also. The instrument is used in an ABS inclinometer on which are pre-installed appropriated magnet rings.

The probe is 1470 mm long with a body diameter of 40 mm , it is watertight up to 1.5 MPa. The wheels are suitable for inclinometer tubes with nominal inside diameter of 60 mm. The type of electrical output is designed to have high thermal stability (central zero signal) and compatibility with the existing data logger OTR.

The probe is equipped with breakable arms to recover the probe if blocked in the casing.

The datalogger allows measurements quickly and confidently. The software for processing of the measures is complete for every need and request.


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Technical specifications

Incremental Extensometer probe	
Code	OINCLINCREX
Principle of functioning	Position transducer
Range	+/-100 mm
Power supply	+/-12 Vdc
Output	+/-5.0 Vdc, +/-2.5 Vdc
Resolution	0.01 mm
Accuracy	+/- 0.01 mm
Temp coefficient sensor	0.005% FS/°C
Material	Stainless steel and aluminum □ 38 mm
Carrying whells	Detachable wheel carriages (650 N pull)
Whell base	1000 mm
Total length probe	1470 mm
Weigth	3,0 Kg
Compatible with tubes and ABS with magnets already on the market for this application	

Inclinometer cable with storage reel	
Code OINCLI200XX0	
	<ul style="list-style-type: none"> • Polyurethane sheath • Color: orange • Stainless steel anti-torsion sheath Anima in Acciaio di diametro 2.5 mm • Tinned copper 6x0.50 mm² conductors • Tinned copper crimped graduations every 50 cm, with metres reading every 10 graduations • Strength ~ 600 Kg • Storage reel diameter: 40 cm

Datalogger	
Code OINCLI40000	
	<ul style="list-style-type: none"> • Microprocessor: 24FJ • 64 Kbyte memory dedicated to operative system, 256Kb memory for recording up to 30 measurements for 4 slides, each up to 500 steps (50cm steps in a 250 m) • RTC internal • Backlight LCD display 4x20 • USB data output • Keyboard: 5 multifunctional keys • External button for data acquisition • External battery charger • Autonomy > 12 h • ABS container, size: 28x26x12 cm • Battery: 6V 4 or 6 A/h • Weight: 3.4 Kg • OTR driver for WIN 2000/XP/Vista/7

Accessories		
Code OINCLI90001	Code OINCLIANL70	Code OINCLI10000
		
Positioning rod, diameter 10 mm, 2 meters length, with quick coupling	Tube and magnetic ring reference to ABS-inclin-extensometric column having Φ int. 71 mm and Φ ext. 92 mm.	Steel and aluminium pulley and cable stop