



In-Place Extensometer and In-Place Extenso-Inclinometer OG312

Technical features

The In-Place extensometers and In-Place Extenso-Inclinometers are designed to measure settlement (just extensor-sensor) and settlement + biaxial inclination (3D combined sensor). A robust stainless steel body ensure an instrument rugged and reliable.

Applications

The In-Place Extensometer and In-Place Extenso-Inclinometer are used for the continuous automatic monitoring of the inclination and settlement of an Extenso-inclinometer casing.

In particular it can be applied in:

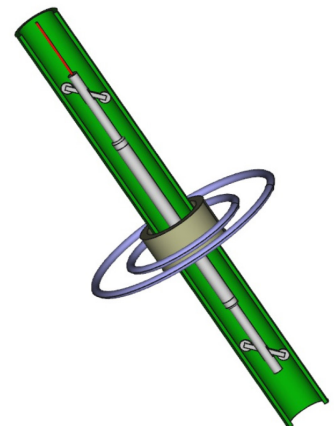
- walls and rock masses
- landslides and unstable slopes
- tunnels excavations
- bulkheads and levees
- earth and concrete dams

Installation

- The installation of In-Place extensometers and In Place Extenso-Inclinometers usually requires a measurement campaign before installation. The probe must be installed in ABS casing with pre-installed appropriate magnetic rings.

Related Instrumentation

- 3x2x0.25 PUR Cable
- NTC Thermometer
- Stainless steel rope
- Suspension Head
- Mounting kit for in place inclinometers
- Datalogger D1600-D3200
- OtrMonitoring web site





Technical specifications

Model	OG312F	OG312FI
Description	In-Place Extensometer	In-Place Extenso-inclinometer Biaxial Inclinometer mems
Working Principle	Position transducer	Position transducer + MEMS
Range extensometer	+/- 50 mm o +/- 100 mm	+/- 50 mm
Resolution extensometer	0.01 mm	0.01 mm
Power supply	24 Vcc	24 Vcc
Output signal extensometer	0-10 Vdc	0-10 Vdc
No linearity	< 0.5% F.S.	< 0.5% F.S.
Temp. coefficient sensor	0.005% FS/°C	0.005% FS/°C
Range Inclinometer		+/- 15° o +/- 30°
Resolution		0.001°
Output signal inclinometer		+/- 4.0 Vdc (0-10 V on demand)
No linearity		< 0.5% del F.S
Cross axis		< 1%
Termal drift		<0.002° /K
Operating temperature	Da -20°C a +60°C	
Material sensor housing and whells	Sonda in Inox AISI 304	
Max. diameter	40 mm	
Whell base	1000 mm	
Total length	1230 mm	

Codes & Part Numbers

P/N 2013040
P/N 2013041
P/N 2015000
P/N 2012303

Extensoinclinometric probe with hole 100 mm $\pm$ 15 °
Extensometer sensor with hole 100 mm
Cable 3x2x0.25 PUR KEVLAR Halogen Free
Magnetic ring for incremental strain gauge