



Vertical Inclinator OG310 Titanium

Technical Features



The MEMS internal sensor guarantees stability, precision and repeatability for long time. The probe, in titanium, has arms breakable for easy recovery if the system is blocked in the pipe. The inclinometer operating cable is easy to handle and light. The roll has inside battery and Bluetooth connectivity. An internal algorithm makes measures very fast understanding when operator is moving or he is stopped to position the probe. Software provides several graphs and data tables. Probe, cable and whole system results light, easy to use, rugged and reliable. All materials and components are long time studied and realized with high quality materials. Main features:

- Rapidity and intuitive using automatic measure algorithm;
- Strength and lightness;
- Titanium made;
- Recoverability; Classic system compatibility.

Applications



The inclinometer system is made up of a titanium probe a control cable and a Rugged Mobile. It is used wherever it is necessary to detect a lateral displacement caused by a landslide or a horizontal movement

It can be used for monitoring:

- Landslides
- Unstable Slopes
- Dams
- Bulkheads
- Excavation
- Embankments

Technical Specification

Rugged Mobile	
Battery	Lithium Ion Battery 4000 mA
Autonomy	up to 30 hours autonomy
Stand By Autonomy	up to 38 days
Display	4.7" wet finger/glove on working technology*, Super Bright Display
Memory	16Gb increasable till 128Gb
IP Rating	IP68 (Up to 1.2m for 35mins)
Dimensions	146 x 74.42 x 12.6mm
Weight	200 g



Technical Specification



OG310T	
Description	MEMS-Bluetooth-Titanium Inclinator
Working Principle	MEMS
Range	$\pm 15^\circ$ o $\pm 30^\circ$
Resolution	25.000 sin a
Voltage Supply	5.5-12 Vdc
Non linearity	$\pm 0.057^\circ$
Cross axis	< 1%
Thermal Drift	<0.002 °/K
Working Temperature	-20°C / +60°C
Probe Material	Titanium
Protection	IP68
Output	RS485 with OTR protocol
Suitable Casings	from Ø 45 up to 76 mm
Measuring step	500 mm or 24"
Wheels	Detachable wheels arm (650 N release point)
Weight	1.2 Kg



Inclinometer Control Cable	
Material	Polyurethane jacket
Color	Orange
Diameter	Ø 5.5 mm
Internal rope	Kevlar
Cores	4 x 0.35 mm ² tinned copper
References	Crimped tinned copper
Maximum Load	~ 180 Kg
Roll	Ø 33 cm weight 50 m ~ 6 Kg
Autonomy	>> 16 hours
Battery	7.2V NiMh 2200 mA
Current Consumption	55 mA



Codes & Part Numbers

P/N2018100 Vertical Inclinator OG310T±30°
 P/N2018101 Vertical Inclinator OG310T±15°
 P/N2018102 Roll & Cable 50 m with battery and electronic parts
 P/N2018103 Roll & Cable 100 m with battery and electronic parts
 P/N2018104 Aluminium pulley
 P/N2018105 Aluminium Dummy Probe Ø 30 mm step 500 mm
 P/N2018106 Dummy Roll & Cable 50 m
 P/N2018107 Dummy Roll & Cable 100 m
 P/N2018108 Rugged Mobile S31 with software
 P/N2018109 Inclinator Box OG310T
 P/N2018110 Battery Charger OG310T
 P/N2018111 Battery for OG310T 7.2v NiMH
 P/N2018112 Extension 300 mm