

Digital Inclinator Array

Description

The Digital Inclinator array consists of a biaxial MEMS tilt sensor series each mounted inside a special case in aluminum or stainless steel of specific length, connected to each other by a joint or steel cable stainless steel to form a chain (array).

The Digital Inclinator Array finds the main use in continuous monitoring of deformations and is applied both for structural controls (in dams, tunnels, etc.) that in landslides and in the controls of ground movements.

All the mechanical parts, are made completely in stainless steel which makes it particularly robust and applicable tool even in aggressive environments. The compartment containing the sensors and air conditioning electronics is completely resin-coated to ensure the maximum resistance over time against infiltrations of water



Characteristics

- Segment lengths and of the customizable array according to needs
- Reliability for long-term monitoring
- High resolution and accuracy
- IP68 protection rating
- Robust stainless steel construction
- Digital output signal

Applications

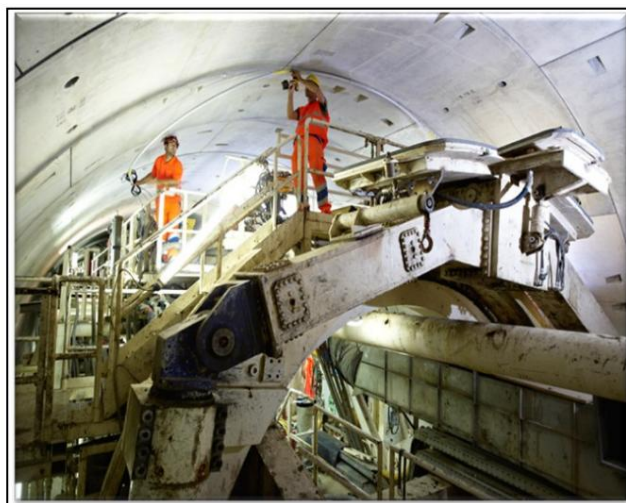
- Landslides and unstable slopes
- Deformation and convergence measurements in tunnels and dams
- Deep excavations and earthworks
- Bridges and viaducts

Technical specifications

Sensor type	Biaxial MEMS
Measuring range	-/+30°, -/+90°, -/+180°
Supply	12-15 Vdc
Output signal	RS 485 (Modbus RTU protocol)
Resolution	0.0003°
Total accuracy	< 0.02% FS
Long-term stability	< 0.02°
Operating temperature	-20.....+60 °C
Sensor size	30x30 mm, length 140 mm
Wheelbase	0.5-1.0-1.5-2.0-2.5 m
Segment material	stainless steel or aluminum
Segment dimensions	30*30 mm square bar
Electric cable	2*24AWG+2*16AWG in PU

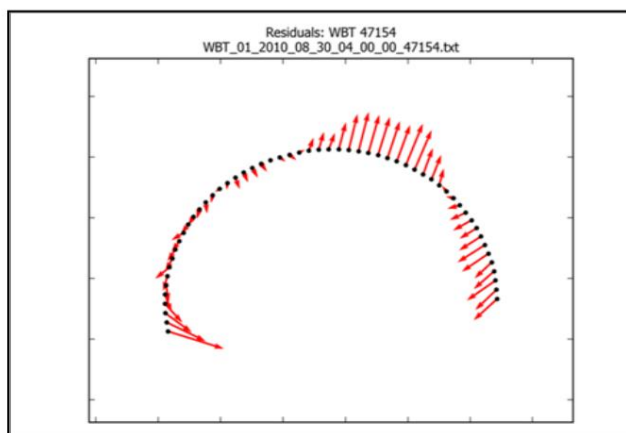
Accessories and spare parts

- Shelf for installation on vertical walls
- Shelf for installation on sloping walls
- Electric cable cut to size



Ordering Information

PRODUCT	DESCRIPTION CODE



For more information:

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