

MAGNET EXTENSOMETER



Description

Magnetic extensometers are used to monitor failures and settlements, often associated with the construction of embankments, embankments and barriers. An extensometer is normally equipped with a series of measuring points (magnet rings). Checking their position by means of a probe, it is possible to know the lowering of every section between two rings and the lowering in comparison to the reference point. The magnetic rings are connected to the soil by steel springs, and they move as a result of compaction or thrusts of the soil. Readings are made lowering the probe through the access tube; this way it is possible to measure the position of the magnet rings after the beddings. When the probe enters the magnetic field area of a ring, it closes a circuit and activates a visual and acoustic signal. The operator can then register the depth to which the probe is located by measuring the value on the millimeter cable.

Applications

- Settlement monitoring of road embankment
- Settlement monitoring in earthfill dams
- Monitoring and control of subsidence
- Subsidence of foundations
- Settlement monitoring of railway

Features

- Suitable for long term monitoring
- Sturdy construction and also suitable for harsh environments
- Economic and effective instrumentation

Technical specifications extensometer

Bottom end	PVC, 63 mm diameter, 1000 mm length
Suspension head	Painted steel and lockable opening
Access tube	PVC, M-M da 1" threaded pipe with PVC sleeve
Lenght access tube	1500 mm, 3000 mm
Corrugated sheath	HDPE, 55 mm external diameter
Material magnet ring	PVC ring with 3 steel springs

Technical specifications magnetic detector probe

Probe	stainless steel, 20 mm diameter, 120 mm length
Cable	2 conductors millimeter flat cable
Lenght cable	30, 50, 100, 150, 200, 250, 300 m
Measurement Accuracy	+/- 1 mm
Indicator	acustic and visual
Cable reel	drum in plastic (o steel) and frame in steel with brake and support for tips

Please specify

CODE	PRODUCT DESCRIPTION
ASM-100	Bottom end
ASM-215	Access tube lenght 1,5 m
ASM-230	Access tube lenght 3 m
ASM-300	Corrugated sheath
ASM-400	Suspension head
ASM-500	Spring settlement ring
ASM-600	Simple magnet ring
ASM-700	Settlement plate
ASM-905	Magnetic detector probe, millimeter flat cable, lenght 50 m
ASM-910	Magnetic detector probe, millimeter flat cable, lenght 100 m



For further information:

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