

Foundation Inclinerometer for Ground Movement Monitoring

This foundation inclinometer is a precision instrument for measuring subsurface ground movement and deformation. The system is used for monitoring slope stability, landslide activity, and the integrity of foundations and retaining structures.



Overview

Precision Ground Movement Monitoring

This foundation inclinometer is a specialized instrument designed to detect horizontal displacement in deep excavations, side slopes, foundations, and piers. By utilizing a probe that travels through a buried casing tube, it provides precise, point-by-point measurements of inclination changes. This system is essential for construction safety, allowing for accurate predictions and informed decision-making based on real-time geotechnical data.

Technical Specifications

Measurement Accuracy

0.5 mm/1m

Accuracy

5 arcsec

Resolution

Measurement Range	30 °
Max Measurement Depth	50 m

Hardware Details

Probe Dimensions	Æ34 × 800mm
Guide Wheel Interval	500 mm
Cable Length	60 m
Control Case Size	275 × 225 × 155 mm

Operational Parameters

Operating Temperature Range

Component	Temperature Range
Control Case	-10°C to +50°C
Inclinometer Probe	0°C to +50°C

Battery Life	Over 8 hours
Data Storage Capacity	60 boreholes

Features

Key Features	Horizontal Displacement Detection, Rechargeable Lithium Battery, Deep Excavation Monitoring, Slope Stability Analysis
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