

# Foundation Incliner 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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