

Digital Inclinometer for Geotechnical and Structural Monitoring

This digital inclinometer is designed for precise measurement of inclination or tilt. It is used in structural monitoring and geotechnical engineering to measure inclination angles relative to gravity.



ADDITIONAL IMAGES



Overview

High-Precision Geotechnical Monitoring

This digital full-space inclinometer is designed for precise inclination and orientation measurements in demanding engineering environments. Ideal for boreholes in hydrology, oil, coal, and geological sectors, it provides accurate data on depth, tool face, dip, and azimuth angles. The system utilizes advanced digital signal processing and long-distance transmission techniques to ensure reliable performance across diverse drilling applications.

Measurement Capabilities

Key Measurement Metrics

0.1 ° Dip Angle Error	2 ° Tool Face Angle Error	15 MPa Max Pressure Tolerance
---------------------------------	-------------------------------------	---

Azimuth Angle Accuracy

Dip Angle Range	Error Tolerance
1° to 3° or 177° to 179°	±3.0°
3° to 177°	±1.5°

Maximum Measurement Depth	1200 m
---------------------------	--------

Hardware Specifications

Probe Dimensions	140 x 1600mm
Probe Weight	7 kg
Power Supply	AC 220V ±10%, 50 Hz
Data Interface	DSHS232 Serial Port, Digital Signal Processing, Long Distance Transmission

Environmental Ratings

Controlling Case Operating Environment

- Temperature: -10°C to 50°C
- Relative Humidity: d85%

Inclinometer Probe Operating Environment

- Temperature: 0°C to 75°C
- Max Pressure: 15 MPa