

Digital Inclinometer for Angle and Tilt Measurement

This digital inclinometer enhances anti-shaking capabilities by removing hammer swing parts in the probe tube. It improves measurement efficiency by allowing users to preset depth intervals and measurement point numbers.



Overview

High-Precision Digital Inclinometer

This advanced digital inclinometer is engineered for precise angle and tilt measurement in demanding environments, including hydrology, oil fields, coal fields, and geotechnical engineering. It features a robust, anti-shaking probe design that eliminates mechanical hammer parts, significantly improving measurement stability and reliability. With automated data recording and high-precision sensors, it provides accurate dip and azimuth readings for boreholes greater than 54 mm in diameter.

Measurement Capabilities

Dip Angle Range	50 degrees
Dip Angle Error	±0.2°
Azimuth Angle Range	0–360°
Azimuth Angle Error	±5.0° (1–3° dip); ±3.0° (3–50° dip)

Performance Metrics

Maximum Measurement Depth	1200 m
Data Storage Capacity	100 groups

Technical Specifications

Power Supply	AC 220V ±10%, 50 Hz
Probe Dimensions	∅54 × 1345mm
Probe Weight	13.5 kg
Control Unit Dimensions	270 × 220 × 155 mm
Control Unit Weight	2.4 kg

Environmental Conditions

Probe Pressure Resistance	15 MPa
Probe Operating Temperature	0°C to 55°C
Control Unit Operating Temperature	-10°C to 50°C