

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

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|---------------------|-------------------------------------|
| 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 |