Digital Borehole Inclinometer

This instrument utilizes a high-precision gravity accelerator and a 3D magneto-resistance sensor to create its measurement system. It is sensitive, repeatable, and compact.

Overview

Advanced Digital Borehole Inclinometry

This digital inclinometer is a high-precision instrument engineered for measuring dip and azimuth angles in vertical or directional boreholes. It utilizes a high-precision gravity accelerator and a 3D magneto-resistance sensor, ensuring reliable, repeatable performance in mining, hydrology, and geological survey applications. Designed for durability and efficiency, the system features long-distance signal transmission and an anti-shaking probe design to maintain accuracy in challenging field conditions.

Measurement Capabilities

Dip Angle Performance

50 °	0.2 °
Range	Error

Azimuth Angle Accuracy

Dip Angle Range	Error
1° - 3°	±5.0°
3° - 50°	±3.0°

Max Measurement Depth	1200 m

Technical Specifications

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

Operating Environment

Probe Operating Conditions

- Temperature: 0 to 55
- Pressure Endurance: d15 MPa

Control Unit Operating Conditions

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

Features

System Highlights	Digital Signal Processing, Anti-Shaking Probe, Long-Distance Transmission, Manual Data Recording, Ultra-Bright LCD