

# Portable Digital Inclinometer

This portable digital inclinometer utilizes a high-precision gravity accelerator and 3D magnetic resistance sensor for accurate measurements. Modern digital data processing techniques ensure high sensitivity and good repeatability in a small volume.



## ADDITIONAL IMAGES



## Product Overview

### Precision Inclination Measurement

This portable digital inclinometer is designed for reliable inclination measurement and direction control in engineering, exploration, and directional drilling applications. It integrates a sensor, power supply, and data processing unit into a compact system that operates without cables or mechanical moving parts. The device independently determines dip and azimuth angles, making it an essential tool for hydrology, oil field, coal field, and geological projects.

## Measurement Performance

### Dip Angle Accuracy

**0.2 °**

Dip Angle Error

### Measurement Specifications

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

## Technical Details

### Operational Limits

- Maximum measurement depth: 1500 m
- Measurement mode: Fixed points
- Delay time: 1–180 min
- Time interval between points: 1–60 min
- Operating temperature: 0°C to 55°C

### Probe Dimensions

40mm diameter x 1320mm length

## Data & Power

### Data Storage Capacity

100 groups

### Battery Runtime

32 hours

### Total Measurement Points Saved

1000 points

## Applications

### Suitable Industries

Engineering, Hydrology, Oil Field, Coal Field, Geology