

Portable Digital Inclinometer

This portable inclinometer measures inclination or tilt angles in different applications. It features a control unit with analog displays and probe rods for readings in various environments and depths.



Overview

Portable Digital Inclinometer Overview

This portable digital inclinometer is a specialized instrument designed for determining the inclination of boreholes. It is highly effective for measuring dip and azimuth angles in non-magnetic boreholes with diameters greater than 46 mm. Combining the lead hammer principle with magnet needle direction, it offers high accuracy comparable to larger stationary instruments while maintaining a simple, user-friendly operation for field conditions.

Measurement Specifications

Azimuth Measurement Range	4° to 356°
Azimuth Measurement Error	±4° (when dip angle is 3° to 50°)
Dip Measurement Range	50 °
Dip Measurement Error	d±302

Operational Specs

Power Supply	DC 12V
Pressure Resistance	15 MPa
Max Working Temperature	50 °C

Physical Dimensions

Component Dimensions & Weight

Component	Dimensions (mm)	Weight (kg)
Controlling Case	300x210x85	1.5
Inclinometer Probe	∅40x1260	6
Extending Tube	∅40x570	2

Application Suitability

Ideal Applications	Geotechnical Investigation, Structural Monitoring, Non-magnetic Borehole Analysis
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