

# 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 |
|--------------------|---|