Borehole Compass Inclinometer

This instrument determines the dip angle and azimuth angle of boreholes. It is used to control borehole drilling direction and slope to avoid accidents during drilling procedures.

Overview

Precision Borehole Measurement

The Borehole Compass Inclinometer is a specialized, non-magnetic instrument designed for precise angular measurements in geological and engineering applications. Built for durability, it features a robust outer sheath capable of withstanding significant hydraulic pressure. This self-contained unit operates without external power or cables, making it an ideal solution for single-point determinations in non-magnetic environments.

Measurement Capabilities

Dip Angle Accuracy

Range	Error
0–30º	±1º
30–60º	±2º

Azimuth Angle Range	360 º
Azimuth Error	±4º (for Dip angle e4º)

Physical Specifications

Outer Diameter	75 mm
Instrument Length	1990 mm
Weight	33 kg

Operational Details

Max Working Temperature

80 °C
Max Temperature

Power Requirements	Not required (Manual operation)
Hydraulic Pressure Resistance	7 MPa
Timing Range	10–110 minutes
Operational Constraints	Cable-free, Single-point determination only, Non-magnetic area use only