

High Precision Fluxgate Magnetometer

This high-precision fluxgate magnetometer offers high resolution and accuracy for measuring magnetic fields. It can calibrate surrounding interfered magnetic fields.



Overview

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This high-precision magnetometer is designed for advanced geophysical and environmental exploration, offering exceptional accuracy for fault location, archeology, and magnetic prospecting. Featuring all-solid-state electronics and an integrated sensor chip, it ensures stable, reliable performance without the need for liquid damping. With a wide measurement range and automatic temperature compensation, this device provides professional-grade data collection for demanding field conditions.

Performance Metrics

Measurement Range

100000 nT

Range

Resolution	0.1nT ~ 1nT
Accuracy	<± 0.5% (full range)
Data Acquisition Frequency	100 Hz

Technical Specifications

Detection Axis	Vertical, Horizontal
Storage Capacity	100000
Power Consumption	160mA ~ 300mA
Battery Life	20 hours continuous
Operating Temperature Range	-10°C to +50°C

Physical Characteristics

Dimensions and Weight

Component	Size/Weight
Mainframe	270mm x 110mm x 223mm / 2kg
Probe	86mm x 60mm / 0.5kg

Features

Key Advantages

- Automatic temperature compensation
- PC connectivity for mapping and analysis
- Backlit LCD display
- Automatic voltage alarm
- All-solid-state electronic circuits