

Portable Tri-Component Fluxgate Magnetometer

This portable magnetometer features a small tri-component probe for use in confined spaces, such as underground. It displays tri-component readings simultaneously and offers high-resolution simulation output.



Overview

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This portable tri-component fluxgate magnetometer is engineered to detect mutually vertical X, Y, and Z components of magnetic induction at any point. Designed for versatility, it is suitable for monitoring geomagnetic fields, studying the magnetic signatures of moving objects, and detecting magnetic ores or objects. The system is built for field reliability with a robust design and extended battery life.

Measurement Performance

Measuring Range	100000 nT
Maximum Resolution	1 nT
Display Resolution	10 nT/byte
Remanence	$d\pm \text{nT} @ \pm 100,000\text{nT}$

Technical Specifications

Full Range Output	$\pm 10\text{V} \pm 0.5\%$
Frequency Response	0-20Hz @ $\pm 10,000\text{nTp-p}$
Tri-axes Orthogonal Degree	$d\pm 1^\circ$

Physical Dimensions

Probe Dimensions	104 x 83 x 75 mm
Mainframe Dimensions	372 x 266 x 135 mm

Operational Details

Cable Length	5-30m (optional)
Continuous Working Time	8 hours