

Multi-Channel Fluxgate Magnetometer

This multi-channel fluxgate magnetometer offers a wide geomagnetism compensation range. It measures multiple channels simultaneously and is equipped with a long probe cable.



Overview

High-Precision Multi-Channel Magnetometry

The DSHM-DT06 is a professional-grade multi-channel fluxgate magnetometer engineered for measuring vertical or tri-component magnetic field values. Designed for large-scale applications, it supports 12 channels by default, with scalability up to 512 channels for complex array measurements. It is ideal for monitoring underwater targets, analyzing remanence in large vessels, and conducting precise magnetic field mapping in laboratory or dock environments.

Performance Metrics

Measuring Ranges

- $\pm 100\text{nT}$
- $\pm 1000\text{nT}$
- $\pm 10000\text{nT}$
- $\pm 100000\text{nT}$

Resolution

0.1 nT
Resolution

Geomagnetism Compensation	-100000 to +100000nT (Fineness: 0.001%)
----------------------------------	---

Sensor Specifications

Probe Dimensions

Component	Size
Single Component	178*115mm
Tri-Component	192*213mm

Sensor System	Auto-leveling with damp
----------------------	-------------------------

Turning Difference	$d\pm 10\text{T}$ (360° revolving)
---------------------------	------------------------------------

Operational Environment

Underwater Depth	30 m
Operating Temperature	0°C to 35°C

Technical Details

Channel Capacity	12 channels (expandable up to 512)
Output Full Span	$\pm 10V$
Power Requirements	$\sim 220V \pm 10\%$
Benchmark Power Temperature Stability	1ppm/ $^{\circ}C$