

# Proton Magnetometer

The DSHZ-1 proton magnetometer is a new generation detector utilizing advanced magnetometer technology. It offers a measuring accuracy of  $\pm 1$  nT and a resolution up to 0.1 nT, suitable for various applications.



## Product Overview

### High-Precision Proton Magnetometer

This proton magnetometer is a versatile, high-precision instrument designed for comprehensive geophysical and environmental surveys. It offers advanced features like integrated GPS positioning, automatic magnetic field tuning, and a user-friendly interface suitable for single-person field operations. With robust data storage and reliable performance in diverse conditions, it is an essential tool for mineral prospecting, archaeological exploration, and geological mapping.

## Applications

### Key Applications

Oil & Gas Survey, Mineral Prospecting, Earthquake Monitoring, Archaeology, Hydrology, Engineering Exploration, Ocean Magnetic Measurement

## Performance Metrics

### Measurement Capabilities

**20000 nT**

Min Measurement Range

**100000 nT**

Max Measurement Range

**1 nT**

Measurement Precision

**0.1 nT**

Resolution

### Allowed Gradient

5000 nT/m

## Hardware & Design

### Dimensions & Weight

Component	Dimensions	Weight
Mainframe	230 x 155 x 65 mm	2.2 kg
Sonde	75 x 155 mm	0.8 kg

### Power Supply

External rechargeable lithium batteries (14.5V/3Ah) or external power supply

## Data & Connectivity

### Data Storage Capacity

50000

### GPS Positioning Accuracy

<2.5m CEP

### Interface

RS-232C standard serial port

## Operational Features

### Key Features

- Integrated clock for time-stamped data
- Large display with automatic magnetic curve plotting
- English interface
- Geomagnetic field and gradient measurement
- Backlight LCD screen for night use
- User-friendly two-handed keyboard
- Full-range automatic or manual tuning

### Operating Temperature

-10°C to +50°C