

DX-330F Three Axial Fluxgate Magnetometer

DX fluxgate magnetometer is a kind of instrument which can accurately measure the weak static and dynamic and low frequency vector magnetic field. The fluxgate meter has the characteristics of high stability, high linearity and accuracy, full digitalization, etc. It adopts the world's top fluxgate probe. Compared with the magnetic field measuring instrument based on the principle of hall effect or magnetoresistance effect, it is the best choice to measure the weak magnetic field. It has digital and analog signal output, and the unique can bus network interface is suitable for multi array magnetic field testing, which is widely used in science and technology research, military, aerospace and other departments.

Hardware interface information of DX flux gate meter

- ◆ Interface db15: probe input and output
- ◆ Measurement method: handheld probe or self-made tooling
- ◆ Reading mode: through display screen or computer software
- ◆ Display: 7-digit svg color screen
- ◆ BNC: analog signal output
- ◆ Power supply: 220v
- ◆ Rs-232: digital signal input and output (provide instruction format)

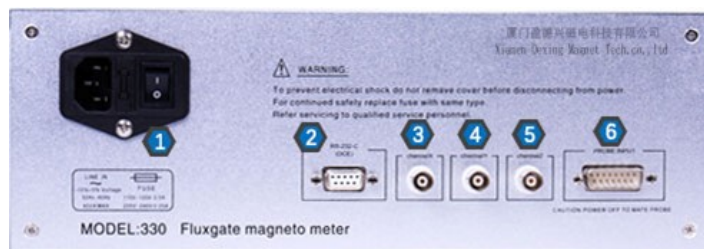


Parameter

Size(mm) W*T*D)	320*130*285
Dimension	3
Range(optional)	$\pm 1000\mu\text{T}$
Error temperature coefficient	$\pm 10\text{nT}/^\circ\text{C}$
Resolution	0.1nT
Accuracy	$\pm 0.5\%$ of reading
Respond frequency	1000Hz
Preheating time	15 mins.
Angle error with respect to assembly plane	$< 2^\circ$
Sampling rate	0-300 times/s
Operating temperature range	0°C to +215°C
Probe size	23*23*21.4mm
Communication	Rs-232/USB
Analog output	3-channel BNC
Supporting software	Date reading software



Back Panel



1. Power interface and switch
2. RS-232C connector
3. X channel analog output BNC
4. Y channel analog output BNC
5. Z channel analog output BNC
6. Probe input connector

Application

- ◆ Monitoring the earth's environmental magnetic field, laboratory and space magnetic field.
- ◆ Calibrate the magnetic field shielding and field source in the laboratory, such as: three-dimensional helmholtz coil system, no distance coil system, etc;
- ◆ Geological prospecting, oil system while drilling system to detect weak magnetic field in rock;
- ◆ Check the attenuation characteristics and shielding effectiveness of the magnetic field shielding system;
- ◆ Test the magnetic shielding effect of the magnetic shielding room;
- ◆ Dipole moment and remanence magnetic field of satellite equipment
- ◆ Fluxgate meter, magnetoresistance magnetometer and calibration standard of various sensors
- ◆ Earthquake precursor monitoring, volcano observation and other environmental and disaster geological work;
- ◆ Aeromagnetic and marine magnetic survey
- ◆ Study of weak magnetic field in biological science