

J2-2NM Non-magnetic Theodolite



Introduction

J2-2NM non-magnetic theodolite is a geomagnetic absolute observation instrument integrating opto-electromechanical technology, which can be used for multiple purposes, like both the geomagnetic declination angle D and the geomagnetic inclination angle I , and observing the total intensity F together with the proton magnetometer is an ideal combination of geomagnetic vector observation. The magnetometer can be used not only in geomagnetic stations, but also for mobile geomagnetic observations in the field. J2-2NM non-magnetic theodolite has the features of high observation accuracy, easy to carry, easy to operate, stable and reliable working performance.

Feature

1. The resolution reaches up to 2", and the magnetic field at any position of the theodolite within 1cm distance from the direction of the secondary probe is less than 1nT;
2. The magnetometer part adopts a single-axis fluxgate magnetometer with a resolution of up to 0.1nT;
3. The system structure is simple, light and portable, which is convenient for station and field construction.

Application

Widely used in geomagnetic scientific research, data collection, mapping, national defense, earthquake prediction, petroleum and various mineral detection, aviation and navigation orientation, and many other fields, the instrument can implement geomagnetic observation at fixed stations or field stations.



Specification

Theodolite: J2-2NM non-magnetic theodolite

Theodolite grade: better than DJ2

Max. allowable error: $\Delta D : \pm 0.10'$, $\Delta I : \pm 0.10'$

Repeatability: DB: $\pm 0.10'$, IB: $\pm 0.10'$

Steering difference: $\Delta D : 5'$, $\Delta I : 5'$

Min. safety distance from detector to fluxgate sensor: 2.0 m

Magnetic interference: less than 1nT at the position 1cm from the non-magnetic theodolite
Sensor calibration: initial horizontal axis difference : $< 45''$, initial vertical axis difference: $< 20''$

Linearity: 0.3% (full scale)

Correction factor: $1.000 \pm 1\%$

Indication resolution: 0.1nT

Dynamic range: -250nT~250nT

Horizontal included angle: $3'$

Vertical included angle: $3'$

Zero field drift: adjustable within 20nT

Gauge head display: digital

Power supply: AC and DC dual-purpose (DC12V, AC220V), reverse polarity protection, portable charger

Operating temperature range: $-10 \sim +40^{\circ}\text{C}$

Under the condition of transportation guarantee, the instrument complies with JB /T9329

The free drop height is 250mm

Note: Illustrations, descriptions and technical specifications are not binding and may change.



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