

Very Low Frequency Electromagnetic Instrument

This electromagnetic instrument measures magnetic field horizontal and vertical components. It also measures polarized ellipse inclination and ground electric field horizontal components.



Overview

Professional VLF Electromagnetic Prospector

This very low frequency electromagnetic instrument is designed for precise geophysical surveying and exploration. By utilizing radio waves as a field source, it effectively measures parameters influenced by various geological bodies, making it ideal for mineral exploration, groundwater detection, and subsurface mapping. Its compact and portable design ensures reliable performance in diverse environmental conditions.

Technical Specifications

Working Frequencies

- 17.4 KHz
- 22.3 KHz

Short-Circuit Noise

1 μ V

Measurement Metrics

Primary Measurement Ranges

30 m³

Magnetic Field

200 V/m

Electric Field

Inclination Angle Range

$\pm 45^\circ$

Physical Characteristics

Dimensions

260 x 95 x 150 mm

Weight

3.5 kg

Operating Environment

Operating Temperature

0°C to 40°C

Relative Moisture Tolerance

85 %

Power Supply

Power Supply

9 V

Power Consumption

120 mW

Applications

Key Applications

Mineral Exploration, Cave Detection, Resistivity Mapping, Underground Tube Location, Substructure Analysis, Dam Leak Detection