Electronic Auto-Compensation Instrument

This electronic auto-compensation instrument is designed for precise measurements. It features a user-friendly interface with a digital display and keypad for easy operation.

Overview

Electronic Auto-Compensation Instrument

This electronic auto-compensation instrument is a microcomputer-controlled device designed for precise geophysical exploration and resistivity measurements. It supports a wide variety of electrical prospecting methods, including Vertical Electrical Sounding, Electrical Profiling, and Spontaneous Potential methods. Engineered for versatility, it is suitable for hydrology, environmental protection, and mineral resource exploration, ensuring reliable data collection even in challenging field conditions.

Key Metrics

Max Power Supply Voltage

700 V
Max Power Supply Voltage

Max Power Supply Current

3 A
Max Power Supply Current

Measurement Capabilities

Voltage Measurement Range	±3000mV
Voltage Measurement Accuracy	±1.5%, ±0.1 mV
Current Measurement Range	0.1mA - 3000mA
Current Measurement Accuracy	±1.5%, ±0.1mA

Electrical Specifications

SP Compensation Range	-1000mV to +1000mV
Input Impedance	30 M©

Applications

Supported Prospecting Methods

- Vertical Electrical Sounding
- Electrical Profiling
- Charging Method
- Spontaneous Potential Method

Primary Applications	Hydrology, Environmental Protection, Engineering Geophysical Exploration, Metal Mineral Exploration, Non-metal Mineral Exploration

Physical Specifications

Operating Temperature	-10°C to 50°C
Dimensions	244 × 154 × 237 mm