

DC Resistivity and IP Meter

This DC resistivity and IP meter is designed for geophysical exploration and subsurface investigations. It measures resistivity and induced polarization parameters using various electrode arrays.



ADDITIONAL IMAGES



Overview

Versatile Geophysical Exploration Tool

This multi-function DC resistivity and induced polarization (IP) meter is designed for professional subsurface investigations. It integrates receiver and transmitter functions into a single, ruggedized chassis, making it highly portable for field use. The system supports advanced geophysical methods, including 2D resistivity imaging, to assist in mineral exploration, groundwater search, and geotechnical engineering projects.

Key Advantages

Core Benefits

- All-digital automatic measurement with auto-compensation for spontaneous potential and drift
- Integrated receiver and transmitter in one compact, lightweight unit
- Large LCD screen for real-time display of electrode arrangements and measurement curves
- High capacity data storage for up to 4,800 survey points
- Rugged aluminum chassis with electromagnetic shielding for harsh field environments

Applications

Typical Applications

Energy Exploration, Railway & Bridge Engineering, Mineral Exploration, City Geophysical Exploration, Groundwater Survey, Geothermal Exploration, Dam Safety Inspection

Technical Specifications

Receiving Performance

6000 mV

Voltage Range

5000 mA

Max Current

50 M Ω

Input Impedance

80 dB

50Hz Interference Suppression

Transmitter Details

| Parameter | Specification |
|-------------------|------------------------------|
| Max Power | 4500 W |
| Power Pulse Width | 1-60 seconds |
| Duty Cycle | 1:1 |
| Power Supply | 8 x 1# Dry Cell/Rechargeable |

Measurement Parameters

- Primary potential (Vp)
- Spontaneous potential (Vsp)
- Power supply current (I)
- Apparent polarizability (Ms)
- Apparent resistivity (Ro)
- Half-decay time (Th)
- Degree of decay (D)
- Integrated IP parameters (Zp)
- Degree of deviation (R)