

Earth Resistivity Meter: RM1

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RM1 is a compact versatile earth resistivity meter with 24 bit data acquisition. All parameters in “stand alone” mode can easily be set using the console keyboard, even in harsh environmental conditions; connect the RM1 to your laptop via the dedicated acquisition software, and use the taylor-made measuring session (VES/ERT) to organize your in-field sessions quickly and efficiently.

Applications

- water surveys of the subsoil to shallow, medium and great depths
- geological stratigraphy, landslide studies, etc.
- groundwater contamination by salt water and / or pollutants
- subsoil cavities detection
- mining (sulphides, etc.)
- archaeology

Methodology

- Vertical Electrical Soundings (VES)
- Electrical Profiling (EP)
- Self Potential (SP)
- Induce Polarization (IP)
- Electrical Resistivity Tomography (ERT, Electrical Imaging)

Main features

- 24-bit Sigma-Delta ADC + oversampling for noise reduction
- High resolution: 2nV - 1nA
- **A.I. (Artificial Intelligence) function with automatic setting of all acquisition parameters (V, I, Te, T0, Ti, etc.)**
- **Standard deviation setting (σ) to optimize measurement accuracy and acquisition times**
- Internal > 5000 measurements (standard version)
- **Electrical Resistivity Tomography function (ERT) - 32 el. (optional)**
- USB data transfer
- Internal battery autonomy: > 1300 continuous measurements (electrical tomography); more than 40h works in SEV mode
- Power supply from external power bank (optional) or PC (via USB)
- Automatic Filtering – oversampling – 50/60 Hz noise removal
- Noise reduction with stacking and average of the acquired values
- Autocalibration at start-up
- **Connects to any external energy source - max.1000V-1A (5A opt.)**
- Light compact PELI IP 67 case - 270x246x123mm - 2.9kg





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