OhmMapper Resistivity Mapper



The Geometrics OhmMapper is a capacitively-coupled resistivity meter that measures the electrical properties of rock and soil without cumbersome galvanic electrodes used in traditional resistivity surveys. A simple coaxial cable array with transmitter and receiver sections is pulled along the ground either by a single person or by a small all-terrain vehicle. Data acquisition is many times faster than DC resistivity.

Multiple passes with the OhmMapper, or a single pass with multiple receivers at different transmitter-receiver spacings, permit 2D and even 3D electrical surveying at a fraction of the time of resistivity or electromagnetic methods. Data acquisition is near-continuous, providing maximum resolution.

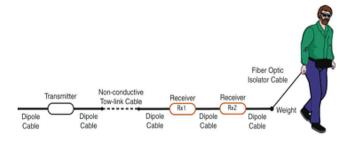
The console provides graphical display of both position and data. View the last five profiles or scroll a window through the entire data set right in the field.

Data can be exported in ASCII-columnar format for plotting with Surfer or Geosoft software.

FEATURES & BENEFITS

- **Capacitively-coupled** No metal electrodes to drive into the ground.
- Light and compact Single-person operation.
- Low power consumption Small battery.
- Easy to set up Rapid deployment.
- Fast Data Acquisition Highest resolution possible.

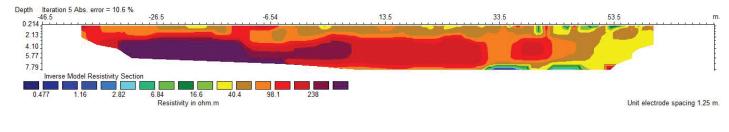


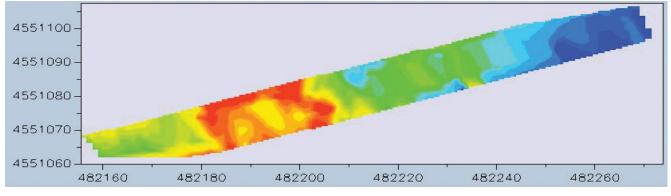




SPECIFICATIONS OhmMapper Resistivity Mapper

Operating Principle: Constant-current capacitively-coupled,	Voltage Accuracy: 1%.
dipole-dipole resistivity.	Receiver Input: 0-2 V _{rms} .
Operating Range: 1-100,000 Ω m.	Power Line Rejection: >100 dB.
Cycle Rate: 2 Hz.	Transmitter/receiver Power: 12 VDC (supplied by console).
Data Storage: 2 Mbytes of nonvolatile RAM.	Console Power: 28 VDC (Internal battery backup for clock and
Audio Output: Metronome, signal amplitude, disconnect.	nonvolatile RAM).
Visual Output: 320 × 200 LCD.	Array Type: Dipole-dipole.
Data Display: 5 line-profiles of resistivity.	Console Weight: 1.6 kg (3.5 lb).
Output: ASCII columnar.	Transmitter Weight: 2 kg (4.4 lb).
Clock Resolution: 0.1 sec; drift <1 sec/day.	Receiver Weight: 2 kg. (4.4 lb).
Transmitter Frequency: <18 kHz.	Battery Pack and Harness: 1.6 kg (3.5 lb).
Transmitter Output Current: Variable from 16 mA to 0.25 mA.	Array Depressor Weight: 3 kg (6.6 lb).
Dipole lengths: 5, 10, 15, 20 m; longer lengths optional.	Console Dimensions: L: 15 cm; W: 8 cm; H: 28 cm (5.9x3.1x11 in).
Receiver Input: 5 Mhos.	Battery Dimensions: L: 8 cm; W: 14 cm; H: 20 cm (3.1x5.5x7.9 in).





Plan and cross-sectional views of karst feature in Italy.

Specifications subject to change without notice. OhmMapper_v1 (0217)



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