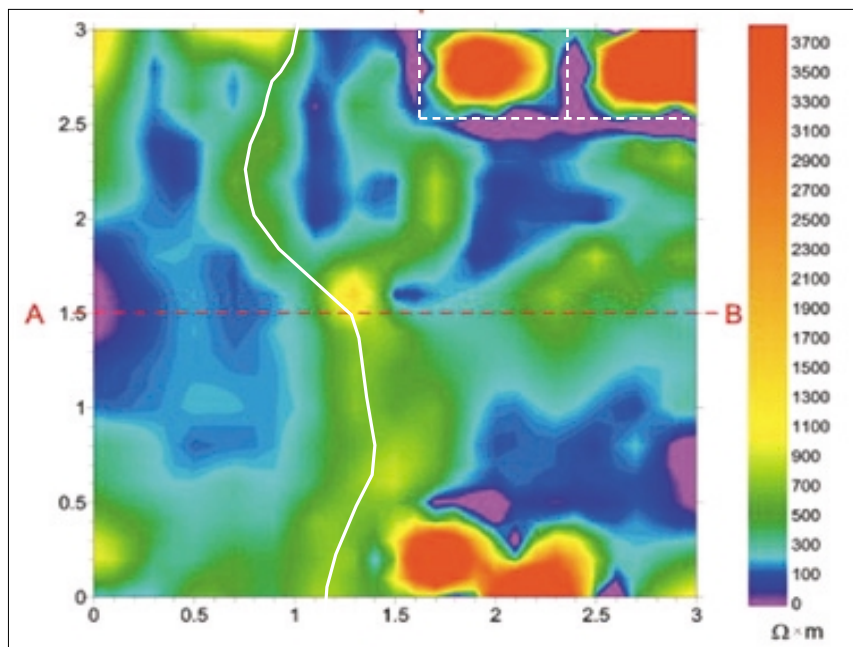


MRS - 256

Micro Resistivity System



Neoclassic building - apparent resistivity map of the wall with fractures and hidden objects

The MRS-256 Micro Resistivity System together with the processing method was designed for a detailed resistivity and self potential studies of measured areas, especially those of an archaeological interest. The system of electrodes of a required array fixed e.g. to a wall of a building or simply to the ground is connected with the MRS-256 system that provides a measurement control. The 3D model obtained after processing of the measured data allows distinguishing of crackles, cavities and other various structures of walls or targets buried in ground.

The MRS-256 system consists of a transmitter and a sensitive receiver (parallel 24 bit AD converters) with the extremely high input impedance. The MRS-256 is connected to the system of cables with electrodes in an array fit to the type of the survey. The MRS-256 system is operated via RS232C cable from PC notebook. The operating software is designed to be useful in all real measurement conditions and offers:

- good visibility and distinction of the information on the screen
- easy, user-friendly operation with prompts
- current indication of parameters and results
- testing of impedance of electrodes.

The output data of the MRS-256 are compatible with special software for 3D imaging and back projection developed for this purpose at the University of Palermo. The software can be ordered with the system.



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REPRESENTED BY:

Technical Specifications

TRANSMITTER:

- output voltage 0-560 V
- output current up to 1 A
- output pulse power up to 280 W
- electronic overload protection

RECEIVER:

- input range 0-5 V
- converter resolution 0.3 μ V (24 bit at 5 V range)
- accuracy 1%
- input impedance 10 G Ω
- low pass and 50 Hz digital filters

MULTI-ELECTRODE SYSTEM:

- max. 256 electrodes controlled in one potential array

POWER SUPPLY:

- user's 12 V lead battery (40 Ah recommended)

AMBIENT CONDITIONS:

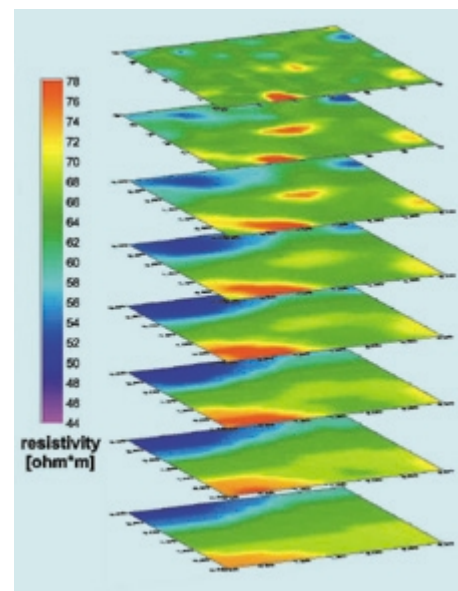
- 10 to +50 °C

USER'S NOTEBOOK SPECIFICATIONS:

- Windows 95
- 486 processor or Pentium
- RS 232 channel

WEIGHTS:

- receiver 2 kg
- transmitter 5 kg



Shallow situated buried plastic barrel - model study with 3D back projection

Accessories:

Delivered together with the MRS-256 system:

- PC cable (RS232)
- cable for connection between the transmitter and the receiver
- connectors for measuring cables
- installation diskettes (3 pieces)
- metal transport case

Optional:

- cables with electrodes for walls or ground (made to order according to the user's requirements)
- processing software for 3D imaging and back projection (designed for the use with MRS-256 system)
- PC notebook

With reservations for changes

MRS - 256

Micro Resistivity System

Archaeology

**Studies of historical buildings - condition of walls
Shallow buried objects surveys**



**The MRS-256 is a special tool for variety of archaeological tasks
including measurements on high resistance objects.**

MRS - 256

Micro Resistivity System

Archaeology

**Studies of historical buildings - condition of walls
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