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RESISTIVITY SYSTEM OMEGA-48

OMEGA-48 is a multichannel Resistivity system designed for vertical electrical sounding (VES) and induced polarization (IP) methods on electrical resistivity tomography (ERT) technology.



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Description

Characteristics

OMEGA-48 is a multichannel Resistivity system designed for vertical electrical sounding (VES) and induced polarization (IP) methods on electrical resistivity tomography (ERT) technology.

Resistivity system OMEGA-48 consists of

- Multi-electrode 10-channel Resistivity instrument which includes transmitter, receiver and switching unit connected to current and measuring lines in a single heavy duty cable with waterproof enclosure
- Two sections of multi-core cable with 24 electrode each
- Industrial laptop
- Software for system control, results acquisition, data processing and interpretation:
 - developing field measuring protocol, SEQ files,
 - managing measuring process, data collection and storage,
 - visualization and editing field data,
 - automatic data 2D inversion,
 - visualization of inversion result.

Resistivity instrument measures amplitude parameters of output current of the transmitter, electrical potential difference between measuring electrodes (apparent resistivity), time parameters of chargeability (apparent chargeability) determined on voltage decay curve at measuring electrodes after switching off the current.

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