

GEA 7

100 CHANNEL DIRECT CURRENT GEOPHYSICAL INSTRUMENT

–BROCHURE–

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- ✓ resistivity, IP and SP data at highest possible efficiency
- ✓ easy acquisition of VES, VES-IP data
- ✓ easy automatic acquisition of multielectrode data
- ✓ acquired VES and MEM (multielectrode measurements) data interpretation is possible already in the field on instrument's notebook.

Technical specification: GEA 7, resistivity via 100 channel MEM, IP and SP with ERT interpretation

General:

- Notebook operated instrument, which enables full interpretation of VES and MEM interpretation and ERT inversions immediately in terrain
- Weight: receiver and transmitter in one device box: 19 kg
- Dimensions: 500 x 400 x 225 mm. Ambient temperature: 0° C to 40° C

Receiver – measuring device:

- Number of MN pairs (measuring VES potential electrodes): 6 pairs
- Number of AB pairs (current electrodes): 1 pair
- Number of MEM channels: 100 electrodes
- Two 21 bits A/D converters with precision at least 5 μ V and 5 μ A
- Resistivity measuring in both modes: commutated or non commutated
- Input impedance: 10 M Ω
- Up to 20 IP chargeability windows (in raw result file unlimited number)
- Chosen IP polarizability window results showed during the measurement
- Optional number of measuring cycles (average resulting)
- Resistivity measuring in both modes: commutated or non commutated
- Use of preset parameter files
- Digital record format in ASCII (GEF)
- Preinstalled interpretation programme for profile VES measurement VIS-IP (Valtr&Chyba, SIHAYA Ltd. 2014)

Transmitter – power supply box:

- Output current from: 1 mA to 1.5 A
- Output voltage from 12 to 400 V

Accessories for VES measurements:

- 10 MN Cu / brass electrodes
- 2 AB current electrodes with 302/660 m of wire at each one's drum
- MN cable with length 50/160 m for 4/5 pairs of MN electrodes
- 4 MEM multielectrode 75 m long cables with 25 electrodes with 3 m step (100 electrodes together)

