Earth Resistivity Meter for:
groundwater-prospecting
near surface geophysics
Archeology

- simple operation, ultra compact
- internal memory for > 150,000 readings
- measures complex resistivity
- 16 frequencies
- 10 watts output power
- fast mapping function
- various automatic modes
- full remote control
- low price

**data:**
Size: 25 x 12 x 5 cm
Weight: 742g
Display: 4x20 characters
isolated RS232-interface
full remote control for all functions via isolated serial interface
interface for active electrodes for electrical resistivity tomography

**transmitter:**
frequencies: 0.2 - 30 Hz
constant output current: 1mA,...100mA, 8 steps
output voltage: max. 380V p-p, square wave

**receiver:**
lock-in-amplifier with in-phase/out-of-phase detection
transmitter cable crosstalk reduction
very high 16.66/50/60Hz suppression
simultaneous display of in-phase/out-of-phase - signal and statistical error
24Bit ADC
resolution to 50nV / 0.1 mrad, dynamic range >130dB
max. input voltage 1V p-p
accuracy better than 0.1%, full calibration feature for phase and amplitude for all frequencies
fast: data acquisition time: 1.5 sec/sample @ 1.04 Hz,
less than 0.5 sec at 8.33 Hz
calculates apparent resistivity for various geometries
fast automatic mapping function

**stand-alone tomography mode**
Monitoring mode
Measurement of contact resistance

**power supply**
4 internal high capacity NiMH-AA-batteries
or external power supply 9 - 15 V, 1A
or AA alkaline batteries
3 hour quick charge of the internal batteries
average operating time with full batteries: 20 - 50 h,
minimum 1.5 hours at maximum output power

742 Gramm
25 x 12 x 5 cm