

LandMapper[®]

measures electrical conductivity,
resistivity, self-potential
(EC/RES/SP) directly in the fields



To picture geological cross-section

To map soil fertility, texture and salinity

To find burials

To outline the flow of groundwater

To locate pipelines underground

To detect leaks in pipes

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Compare ERM-03 and ERM-04

Feature	LandMapper ERM-03	LandMapper ERM-04
Electrical Resistivity, Ohm m	YES	YES
Electrical Conductivity, Sm	YES	YES, direct readout
Natural Electrical Potential	NO	YES
Central-symmetric 4-electrode probes (Wenner, Schlumberger)	YES	YES
Universal 4-electrode probes (dipole-dipole, square, etc.)	NO	YES
Max depth	20 m	30 m
Measurements in the lab	YES	YES
Measurements in the soil pit	YES	YES
Stores 1000 data point for download to PC	YES	YES
Real-time stamp to synchronize with separately collected GPS coordinates	YES	YES
Unattended measurements – monitoring at user-specified time intervals	YES	YES

ERM-03 model can be upgraded to ERM-04 remotely upon paying an upgrade fee of \$698.

Technical Specifications

Range of measurements.....RES=0.01-1 10⁶ Ohm m
 EC= 1 10⁻⁶ – 10 Sm⁻¹
SP = -1 to +1 V (Δ =0.01 mV)

User-selectable RES/EC/EP models of measurement.

Automatically adjusts electrical resistivity/conductivity/potential ranges to provide best measurement accuracy.

Precision and error of measurements is typically less than 1%. See exact values for the ER ranges in LandMapper ERM-01 flyer.

User-defined K (geometrical coefficient).....0.1 up to 99.9
 Quantity of changeable K-coefficients.....10
 Quantity of data storage locations.....999
 Range of operation temperatures.....from - 10 up to + 40 C^o or 14 to 100 F
 Air humidity, no more than.....65 %
 Weight of the device no more..... 250 g or 8 oz
 Current of consumption no more.....7.0 mA
 Output voltage, no more.....5 V
 Measurements comparable with DC methods, frequency.....1.25 Hz
 Computer connection..... USB

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