

## Geophysical Testing



**Geophysical Testing:** Irrigation is the artificial application of water to the soil, and is used for assisting the growing of crops. It assumes a particularly high level of importance for crop production during periods of drought, and also to protect crops from frost. In the search for new sources of irrigation water, geophysical techniques are widely used particularly in remote regions of the world where groundwater records may be non-existent.



### Earth Resistivity Meter

This Earth Resistivity Meter provides excellent and reliable performance in a convenient, robust and fully portable design. Ideally suited for subsoil groundwater prospecting at shallow, medium and great depth, it can also be used for geological stratigraphy, studies of salt water contamination in fresh water layers, landslide monitoring, mineral exploration and archaeological research.

- Creation of energetic wave based upon the parameters supplied by the user
- Fast downloading of data through RS232
- Easy to operate menu for quick learning
- More than 50 hours of battery life
- Automatic calibration at every switch-on
- Light and compact structure in a sturdy weatherproof case

Complete unit comprises of the following:

- Earth Resistivity measuring unit
- Cable reel with 300m cable (section 1mm) x2
- Cable reel with 100m cable (section 1mm) x2
- Rechargeable accumulator (200V, 500mA) x2
- Copper electrode x2
- Inox steel electrode x2
- 1.25kg Mallet x2

Catalogue No	AG43-050
Energization Curve	May be customised to suit the following parameters: Positive and negative wave length: 0.1 - 9.9 seconds (impl. at 25 seconds) Time between positive and negative wave: 0.1 - 9.9 seconds Intercycle time: 1 - 99 seconds Number of cycles: 1 - 99
Resolution:	610 nV, 126, 8nA
Number of readouts per wave:	3 readouts of voltage and 3 readouts of current, consecutively and at wave term
Voltage range for VMN	From +/-20mV to +/-1280 V (automatically selected)
Memory:	Up to 1500 measures
Recommended energiser:	600V (1200V peak-peak), 0.5A max
Noise suppression:	Superior to 98 db at 50-60 Hz
Power supply:	2x internal rechargeable battery 6V - 4A/h
Operating temperature:	0 - 60°C
Physical dimensions, mm:	380 x 270 x 150 (shock proof case)
Weight:	7 kg