

RESISTIVITY METER

MODEL DDR-3



The DDR 3 Resistivity Meter is a specialized version of IGIS resistivity meters designed for use in resistivity surveys upto about 150m depth under geophysical favourable field conditions. It utilizes rechargeable batteries as power source to energize the ground thus eliminating the necessity of using the relatively expensive dry cells. The equipment consists of two separate compartments-one for reading the current (G. Unit) and the other for directly reading the resistance/the potential (P-Unit), both housed in a single box.

The equipment, powered by a 24V rechargeable battery can send highly stabilized currents upto 200mA and read the resulting potential with a 100 micro volts resolution or ground resistance directly with 50 micro ohms resolution.

Housed in sturdy Aluminum box fixed in a briefcase, the instrument provides highly reliable digital outputs of ground resistance during field surveys and finds extensive use in ground water exploration, dam site investigation, delineation of geological structural features and in several other related problems.

Applications

- Ground Water Exploration, investigation of shallow as well as deeper aquifers.
- Bed rock investigations for dam construction tunnel alignment and powerhouse construction etc.,
- Mineral exploration
- Study of geological structural features.
- Sand and gravel deposit location.
- Geophysical Field Training

Features:

- Features:** : With special circuit elements, the instrument can energize the ground with a maximum power output of 80 Watts.
- * **Highly stabilized current output** : With special circuit design the instrument can send highly stabilized currents.
- * **Current output indicator** : 3½ digit LCD display helps monitor the stability of the output current.
- * **Potential Measurements** : 3½ digit LCD display Can measure potential with high accuracy of 100 Micro volts.
: Cancellation of S.P. is simple and fast.
- * **Highly portable and Rugged** : Rugged and compact housing provides the required portability during the operations.

Specifications:

- G UNIT: Input Power source** : 24V D.C. Rechargeable Batteries.
- Power Output range** : Upto 200 Watts maximum
: Stabilized Currents
200mA, 100mA, 50mA, 10mA and
Upto 2A in non-stabilized mode.
Voltage setting 25, 50, 100, 200, 300, 400V
- Input impedance** : 1 mega ohm

P. Unit :

- Potential measuring** : 0-1999 mV in two steps with resolution of 1mV, 0.1mV
- Self Potential cancellation** : Upto ± 450 mV
- Resistance Range** : 0.0005 to 400 ohms in constant current mode;
0.0005 to 10 K ohms in non-stabilized mode.
- Instrument power supply** : Three 9V disposable Batteries.

Specifications are likely to change with R&D.

IGIS also makes custom-build resistivity meters to individual specifications and under take repairs
IGIS Instruments carry one-year guarantee against manufacturing defects.

Manufactured by:



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& Services (P) Limited**

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