WDJD-4 D.C. Earth Resistivity&IP Meter



Power:

- VES 6600W.
- Resistivity imaging 1125W

Function:

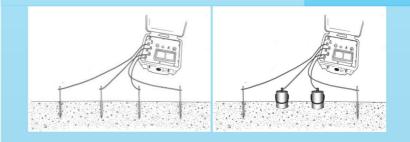
- 1D VES Resistivity/IP
- 1D Resistivity/IP Profiling
- SP survey

Support upgrade to 2D Resistivity Tomography System

Applications:

- Underground water inspection
- Engineering geology inspecting as dam base exploration and flood
- · Metal source exploration
- Non-metal source exploration
- City geophysical exploration
- Railway and bridge

Vertical electrical sounding (VES) is a geophysical method for investigation of a geological medium. The method is based on the estimation of the electrical conductivity or resistivity of the medium. The estimation is performed based on the measurement of voltage of electrical field induced by the distant grounded electrodes.



Main features:

- Transmitting unit and receiving unit are of all-in-one design, portable and lightweight.
- High anti-interference performance and measuring precision, integrated with multistage wave filtration and signal enhancement technologies.
- Automatically achieving compensation of self-potential, drift and electrode polarization.
- Receiving unit supports transient over-voltage protection, transmitting unit supports over-voltage protection, over-current protection and AB open-circuit protection.
- Measured curve can be plotted on the display directly and clearly.
- Setting working period freely, 10 kinds of common array configurations are available; electrode distance is inputted and array factor could be calculated automatically.
- Earth resistance inspection: Earth condition of the electrodes can be inspected at any time.
- Mass data storage: able to memorize maximum 2200 readings of survey points.
- All parameter and data are under power-failure protection; and thus data will not loss when system shutdown or changing battery.





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Receiving

Voltage channel \pm 6V, \pm 1 % \pm 1LSB

Input impedance $>50M\Omega$ Apparent polarizability precision $\pm 1\% \pm 1LSB$

SP compensation range $\pm 1V$

Current channel 6A, 24 bit A/D

Suppression suppression is over 80dB for 50Hz industrial frequency (common mode

interference or differential mode interference)

Transmitting

Maximum transmitting power 6600W
Maximum voltage range ±1100V
Maximum current range 6A

Voltage channel $\pm 24A$, 24 bit A/D

Input resistance $\geq 50 M\Omega$

Others

Working temperature -10 °C∼+50 °C, 95 %RH

Storage temperature $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

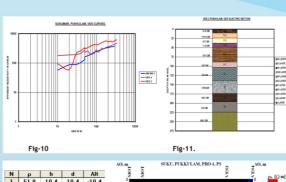
Instrument power internal 12v rechargeable lithum battery or external 12v car battery, for 30

hours continously work

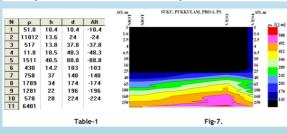
Overall current $\leq 55 \text{mA}$ Weight $\leq 4.4 \text{Kg}$

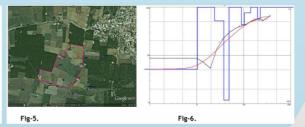
Dimension (L×W×H) 270mm * 246mm * 175mm

CASE STUD



Detect the deep crystalline rock aquifers using 1D VES technique in India









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