

WERT-60/120/4B 2D Resistivity Imaging System

Power:

- VES - 6600W.
- Resistivity imaging - 1125W

Function:

- 2D Resistivity Tomography
- 1D VES Resistivity/IP
- 1D Resistivity/IP Profiling
- SP survey

Flexible configuration

- Support max 120pcs electrodes

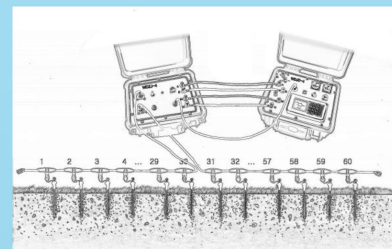


Main features:

- Transmitter and receiver unit are of all-in-one design
- Super high-power, high anti-interference performance and precision
- Automatical compensation of self-potential, drift and electrode polarization
- Supports over-voltage, over-current and AB open-circuit protections.
- 9 types of electrode arrays for VES sounding; up to 18 electrode arrays for 2D resistivity imaging survey
- Program: the program can memorize 100 groups of electrode distances, avoiding repetitive input. Or you just input a program Id and step to call the corresponding electrode distances.
- Earth resistance inspection
- 1GB storage for measuring data (including current, voltage, SP, Ro, Ms, metal factor, TH, R, J).
- Power-failure protection
- USB port

Resistivity sounding method does not take into account horizontal changes in the subsurface resistivity. While 2d electrical imaging method with the resistivity changes in vertical as well as horizontal directions along the survey line.

Typical 1D resistivity sounding surveys usually involve about 10 to 20 readings, which 2-D imaging survey can finish thousand of points with different configuration. So the working efficiency improved greatly.



Applications:

Groundwater explorations, geotechnical investigations, monitoring of dams and dikes, environmental studies, pollution plumes mapping, geological surveys, mineral prospecting, archaeology, detecting of cavities, underwater, marine, borehole and cross-hole measurements..



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Resistivity/IP Meter

Receiving

Voltage precision	If $V_p \geq 10\text{mV}$, $\pm 5\% \pm 1\text{LSB}$; if $V_p < 10\text{mV}$, $\pm 1\% \pm 1\text{LSB}$.
Input impedance	$\geq 50\text{M}\Omega$
Polarizability precision	$\pm 1\% \pm 1\text{LSB}$
SP compensation	$\pm 10\text{V}$
Current channel	6A , $\pm 0.4\% \pm 1\text{LSB}$, 24bit A/D
Current precision	If $I_p \geq 10\text{mA}$, $\pm 5\% \pm 1\text{LSB}$; if $I_p < 10\text{mA}$, $\pm 1\% \pm 1\text{LSB}$.
Suppression	$\geq 80\text{dB}$

Transmitting

Max Tx power	For sounding, 6600W. For imaging, 1125W
Max voltage	For sounding, $\pm 1100\text{V}$ For imaging, 450V DC
Max current	For sounding, $\pm 6\text{A}$; For imaging, 2.5A
Pulse width	1~60s, duty ratio 1:1

Others

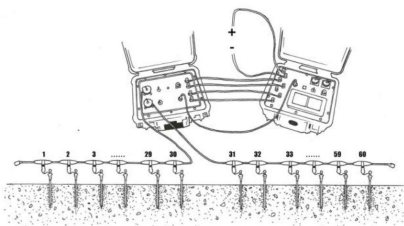
Display	160 * 160 dot matrix LCD
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Storage	$\leq 1\text{GB}$
Working temp	$-10^\circ\text{C} \sim +50^\circ\text{C}$, 95 %RH
Storage temp	$-20^\circ\text{C} \sim +60^\circ\text{C}$
Power supply	internal 12V 9Ah rechargeable
Weight	$\leq 4.4\text{ Kg}$
Dimension	270mm * 246mm * 175mm

Multi-electrode Switcher

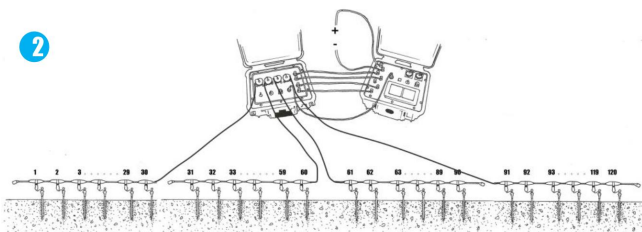
Max electrode	60 /120
Insulation impedance	$\geq 500\text{M}\Omega$
Max voltage	500VDC
Max current	2.5ADC
Power supply	Internal 7.4V 4AH rechargeable
Working temp	$-10^\circ\text{C} \sim +50^\circ\text{C}$

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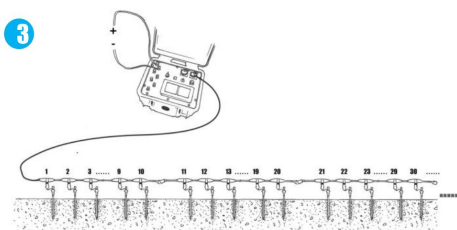


1. WERT-60 : mainframe + switcher (60 take-outs system)
2. WERT -120: mainframe + switcher (120 take-outs system)
3. WERT-4B: mainframe +intelligent cable (no limit on electrode qty)

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