



ABEM

by Guideline Geo



Technical Specification

ABEM Terrameter VES

1D Resistivity and IP



Inspired by the ABEM Terrameter LS 2, the ABEM Terrameter VES brings new levels of performance and functionality to your VES surveys for resistivity and IP.

General

*Compared to the ABEM Terrameter SAS 1000

- 30% better resolution*
- 50% higher maximum current*
- More memory*
- Remote control and diagnostics
- Built-in GNSS (GPS & GLONASS)
- Real-time sounding curve
- Better connectivity with Wi-Fi, Ethernet and USB*
- User-friendly interface with ABEM Active Guidance



Upgrades

The Terrameter VES can be upgraded to the VES MAX specification and both instruments can be upgraded to full imaging systems – simply choose the Terrameter LS 2 model that suits your needs.



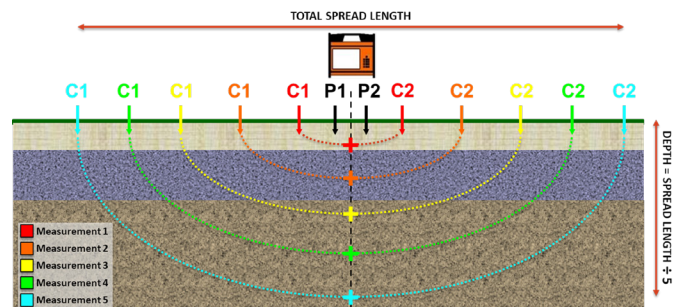
Accessories

A range of quality accessories are available for the VES instruments including VES cable sets, non-polarising electrodes, flight cases, power adapters and batteries, plus the plug-and-play Terrameter Log borehole resistivity logging tool.



The VES Survey Method

VES (vertical electrical sounding) is a basic method which uses four electrodes, two to inject current (C1 & C2) and two to measure voltage (P1 & P2). When the electrodes are moved apart, the electrical field extends deeper into the ground, allowing deeper measurements. Raw data are processed with inversion software to provide a model of resistivity versus depth beneath the centre of the electrode spread.



VES is an excellent, easy-to-use method for identifying aquifers, saline intrusion, geological layering, large mineral bodies, and for predicting the earthing properties of the ground around electrical installations, especially DC (direct current) sites where a deeper assessment is often required.

TRANSMITTER

Output power (W)
Output voltage (V)
Output current (mA)
Constant current
Precision (%)
Accuracy (%)

Terrameter VES

100
400
1500
Yes
0.1
0.2

Terrameter VES MAX

250
600
2500
Yes
0.1
0.2

RECEIVER

Measure modes
Induced polarization 100 % Duty cycle mode
IP Windows
Full waveform
Number of measuring channels
All channels galvanically isolated
Voltage ranges
Input impedance (MOhm)
Precision (%)
Accuracy (%)
A/D converter (bits)
Theoretical resolution (nV)
On-screen sounding curve?
Multi-electrode switching?

Resistivity, IP (50% duty cycle), SP
No
Up to 20, user defined
No
1
n/a
1(±15 V)
30
0.1
0.2
24
22.5
Yes
No
Yes
Yes
Yes – up to 16 electrodes

GENERAL

Memory
Built-in GNSS
Connectivity
Display
Internal battery
Office power supply
User remote control
Remote diagnostic support
Case
Environmental

Minimum 16 GB
GPS & GLONASS
USB, Wi-Fi, Ethernet
8.4" full colour display 39x32x21 cm
Option
Option
Yes
Yes
Yes
Wooden ABEM crate
IEC IP66 -20 to +70°C

DESIGN & DIMENSIONS

Case design
Weight

Aluminium alloy 39x32x21 cm
9.2 kg
(without internal battery)

9.8 kg
(with internal battery)



ABEM Terrameter VES MAX

The ABEM Terrameter VES MAX is a 'bridging' instrument for resistivity and IP, aimed at those with serious aspirations to start doing ERT in the future, and those with the budget for a fully-specified VES instrument, capable of advanced functionality. It should be of particular interest to those with requirements for IP or deeper resistivity surveys as it provides more power and improved sensitivity over the regular ABEM Terrameter VES.

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