

# ABEM Terrameter LS

## RESISTIVITY AND IP IMAGING

Streamlined for productivity

ABEM Terrameter LS is a world leading resistivity/IP instrument which can be used for a wide range of applications, from advanced 4D waste deposit monitoring to 1D soundings.

### General

<b>Casing</b>	Rugged aluminum case meets IEC IP66
<b>Computer</b>	Embedded ARM 9, 200 MHz
<b>GPS</b>	20 channels SirF star III chip
<b>Display</b>	8,4" Active TFT LCD, full colour, daylight visible, with 6 mm shatterproof glass
<b>I/O ports</b>	2x KPT 32 pin for imaging (1x KPT 32 pin for VES) AUX, Interconnect, USB A, USB B, RJ45 for LAN
<b>Service point</b>	Accessible through Internet
<b>Memory capacity</b>	8 GB, more than 1 500 000 readings
<b>Power</b>	2x 12 V, 8 Ah internal NiMH power pack 10-34 VDC external power
<b>Dimensions</b>	(WxLxH) 39x21x32 cm
<b>Weight</b>	12 kg
<b>Ambient temperature range</b>	- 20° C to + 70° C operating <sup>1, 2</sup> - 30° C to + 80° C storage <sup>3</sup>

Note 1: Measuring speed may be reduced in high ambient temperature combined with high output power

Note 2: The performance of the LCD is not guaranteed below 0°C

Note 3: Non condensing

### Multi-Electrode Survey Systems for 2D & 3D

<b>Switching matrix</b>	Internal 10x64, divided into four blocks for effective use of all receiver channels available
<b>Roll-along</b>	Full coverage, both 2D and 3D
<b>Pre-installed array types</b>	Multiple Gradient, Dipole-Dipole, Wenner, Schlumberger, Pole-Dipole and Pole-Pole
<b>Take-outs internal</b>	64 inline + 3 remote electrodes
<b>Electrode test</b>	Estimates contact resistance on all electrodes currently in use



## Receiver

Number of channels	4, 8 or 12 (+ 2 for transmitter-monitoring)
Isolation	All channels are galvanically separated
Input voltage range	$\pm 600$ V
Precision	0.1 %
Accuracy	0.2 %
Resolution	Theoretical 3 nV at 1 sec integration
Linearity	0.005 %
Range	$\pm 2.5$ V, input impedance 200 MOhm $\pm 15$ V, input impedance 30 MOhm $\pm 600$ V, input impedance 20 MOhm
Flat frequency response	Better than 1 % up to 300 Hz
Full waveform recording	Built-in monitoring of all input channels

## Transmitter

Output power	250 W
Current transmission	Constant current transmitter
Maximum output current	2500 mA
Maximum output voltage	$\pm 600$ V 1200 V peak to peak
Instant polarity changer	Yes
Self diagnostics	Monitoring of temperature and power dissipation
Safety	Easily accessible emergency switch

## Transmitter Monitor

Voltage	$\pm 600$ V
Current	$\pm 2500$ mA
Current accuracy	0.2 %
Current precision	0.1 %
Full waveform recording	Built-in monitoring of current and voltage output



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