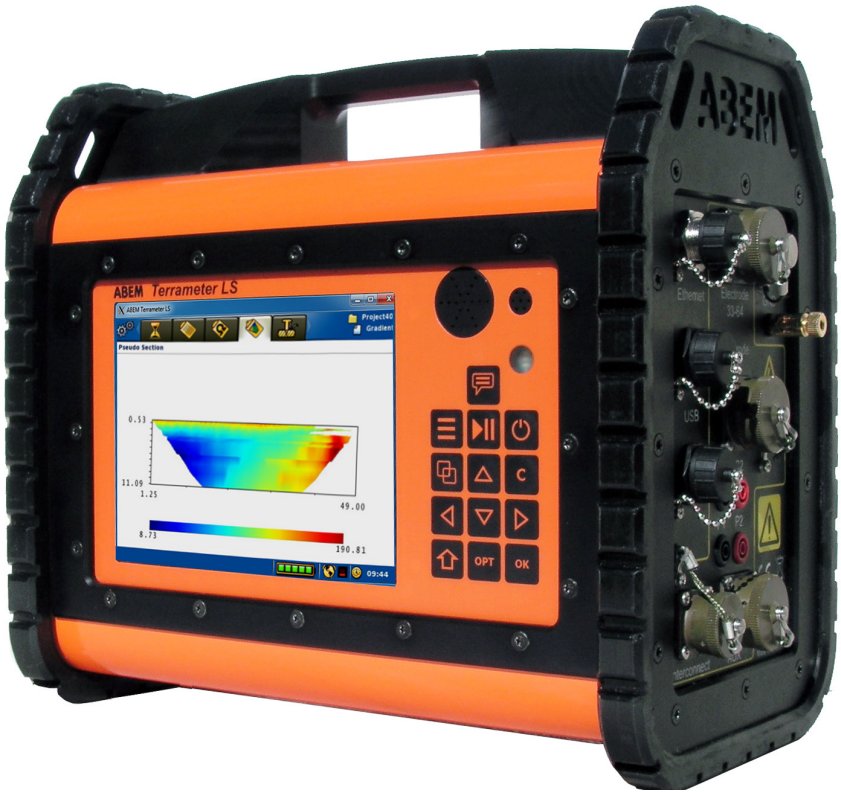
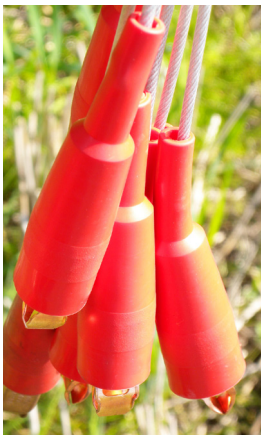
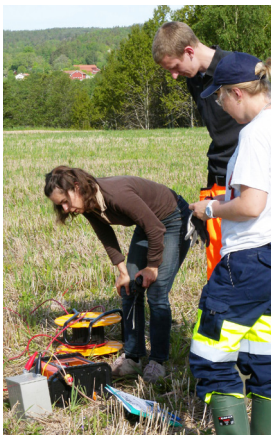
TERRAMETER LS

PRODUCT LEAFLET







WHEN YOU WANT TO BE SURE TO GET HIGH QUALITY DATA

Terrameter LS is a world leading resistivity instrument that offers high quality data. The instrument can be used for several applications and is developed to be useful for universities, contractors/consultants, governments and aid organisations. As the Terrameter LS concept is modular it offers individually tailored solutions to meet each clients specific needs.

ROBUST, EASY-TO-USE DESIGN

Terrameter LS has a robust design optimized for tough field conditions. The instrument is designed for easy usage, it is a compact (12 kg) stand-alone instrument.

HIGH POWER TRUE CURRENT TRANSMITTER

A powerful transmitter creates data with higher quality and decreases the possiblity to get poor quality data in field.

HIGH QUALITY RECEIVER

A sensitive receiver enables high resolution data recording, including the new possibility to make full waveform recording. All channels in the receiver are galvanically separated to reduce noice disturbance.

WINDOWS UTILITY SOFTWARE

To analyse field data, use the utility software for data transfer, protocol uploading, software updating, data conversion and to view full waveform data.

ABEM Instrument AB
Löfströms Allé 1
172 66 Sundbyberg, Sweden
www.abem.se

ABEM

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Receiver

No. of Channels	4,8 or 12 input (+ 2 for Tx monitoring)
Isolation	All channels are galvanically separated
Input Voltage Range	+ / - 600 V
Input Impedance	200 MOhm
Precision	0.1 %
Accuracy	0.2 %
Resolution	Theoretical 3 nV at 1 sec integration
Linearity	0.005 %
Range	+ /- 2.5 V, 200 MOhm + / - 15 V, 30 MOhm + / - 600 V, 20 MOhm
Flat Frequency Response	Better than 1 % up to 300 Hz

Measuring

Resistivity	YES
SP	YES
IP	YES
Full wave form	Sampled and average to requested data. Possible to activate recording to file for post analysis
Dynamic Averaging	24 bit A/D conversion
Data Sampling Rate	30 kHz
Cycle time	from 0.4 sec to 28,7 sec User selectable, resistivity
Pulse time	from 0.1 sec to 8,2 sec. User selectable
IP Windows	Arbitrary windows flexibility configured to powerline frequencies

Transmitter

Output power	250 W
Current transmission	True Current Transmitter
Output Current Accuracy	Better than 0.4 %
Maximum Output Current	2500 mA
Maximum Output Voltage	+ / - 600 V 1200 V peak to peak
Instant Polarity Changer	YES
Accuracy	0.4 %
Precision	0.1 %
Self Diagnostics	Temperature, Power dissipation, Monitoring
Safety	Emergency Interrupter easily accessible

With reservations for changes; our products undergo continuous development

Tx Monitor

Voltage	+/- 600 V
Current	+/- 2500 mA Full waveform monitored
Current Accuracy	0.2 %
Current Precision	0,1 %

General

Casing	Rugged Aluminum case meets IEC IP 66
Computer	Embedded ARM 9, 200 MHz
GPS	20 channels SirF star III chip
Display	8,4" Active TFT LCD, full colour, daylight visible
I / O ports	2 x KPT 32 p for imaging (1 x KPT 32 p for VES) AUX, USB A, USB B, RJ45 for LAN
Service point	Accessible through Internet, Multifunction connector
Memory Capacity	8 GB, More than 1 500 000 readings
Power	8 Ah Internal NiMH 12 V power pack and External 12 VDC battery (recommended option for all Imaging and VES)
Dimensions (W x L x H)	39 x 21 x 32 cm
Weight	12 kg
Ambient Temperature Range	- 20^{o}C to + 70 ^{o}C operating[1, 2] - 30^{o}C to + 80 ^{o}C storage[3]

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^{o}C
Note 3: Non condensing

Multi-Electrode Survey Systems for 2D & 3D for Resistivity, IP & SP Imaging & Monitoring

Switching matrix	Internal 10 X 64, divided into four blocks for effective use of all receiver channels available
Roll-a-Long	YES full coverage, both 2D & 3D
Array types Default	Multiple Gradient, Dipole-Dipole, Pole-Dipole, Wenner etc. (for VES, get info)
Take-outs internal	64 inline + 3 remote electrodes
Electrode Test	YES, Focus One estimating contact resistance on all electrodes currently in use

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Field Equipment

Consult your local ABEM distributor for full details of the various configurations available for you. Turnkey packages for both 2D and 3D measurements are offered, including cables, electrodes and software. Also a VES configuration is available.

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