

Terrameter LS



- ✓ سیستم اندازه گیری IP و SP
- ✓ انطباق پذیری، امن بودن و محکم بودن در شرایط سخت فیلدی
- ✓ راحت در استفاده از آل سی دی آن در نور زیاد خورشید
- ✓ قابلیت انطباق پذیری با نوع داده برداری در محل سایت و دارای امکانات عیب یابی در محل داده برداری
- ✓ کیفیت فوق العاده در داده برداری با فرستنده قدرتمند و گیرنده چند کاناله با رنج دینامیکی بالا
- ✓ پلتفرم ارتباط باز برای تبادل داده ها، اینترنت و امکانات عیب یابی (TCP/IP، USB)

نمایندگی انحصاری در ایران : شرکت لرزه‌نگاری ژرف کاو
تهران، یوسف آباد ، بین خیابان ۶۲ و ۶۴ ، پلاک ۴۵۴ ، طبقه پنجم ، واحد ۹
تلفن : ۰۲۱-۸۸۶۱۴۵۹۲-۹۳ فکس : ۰۲۱-۸۸۶۱۴۵۹۴
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Technical Specifications: Terrameter LS

Receiver

No. of Channels	4 – 12 input (+ 2 for Tx monitoring)
Isolation	All channels are Galvanically isolated
Input Voltage Range	+ / - 600 V
Input Impedance	200 MOhm, 20 MOhm and 300 kOhm
Precision	0.1 %
Accuracy	0.2 %
Resolution	3 nV at 1 sec integration
Linearity	0.005 %
Range	Operator selected range of measurement + / - 5 V, 20 MOhm + / - 5 V 200 MOhm + / - 600 V 300 kOhm
Flat Frequency Response	better than 1 % up to 300 Hz

Measuring

Resistivity	YES, Full waveform recorded
SP	YES, Full waveform recorded
IP	YES, Full waveform recorded
Dynamic Averaging	24 bit A/D conversion
Data Sampling Rate	30 kHz
Cycle time	from 0.1sec to 30 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

Tx Monitor

Voltage	+/- 600 V
Current	+/- 2500 mA
Full wave from monitored	
Accuracy	0.2 %
Precision	0.1 %

General

Casing	Rugged Aluminum case meets IEC IP 66
Computer	Embedded ARM 9, 200 MHz
GPS	20 channels SirFstarIII chip
Display	8,4" Active TFT LCD, full colour, Daylight visible
I / O ports	2 x KPT 32 p for imaging, AUX 2 x USB, RJ45 for LAN
Service point	Accessible through Internet Multifunction connector
Memory Capacity	More than 1 500 000 readings
Power	Internal NiMH 12 V power pack or Optional External 12 VDC battery
Dimensions (W x L x H)	39 x 21 x 32 cm
Weight	12 kg

Software & Communication

Terrameter LS is controlled using the incorporated Firmware. It has a Graphical User Interface that is easy to follow in all its aspects. Clear and instructive graphics assists the user in the operation of the instrument.

For enhanced Data Quality Control in the field it is possible to display the measured Multi-Electrode Resistivity Imaging data in near real time as a pseudo section. Thanks to access points as USB and RJ 45 (for LAN) transfer of data to other computers is extremely simple.

For full inversion of data external software is required. Most common today is RES2DINV or RES3DINV. This program supports data formats provided with the help of the Terrameter LS software.

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

Switching matrix	Internal 10 X 64
Roll-a-Long	YES full coverage, both 2 & 3D
All 84 take-outs	in a Standard cable array are active for roll-a-long
Array types	Default Multiple Gradient, Dipole-Dipole, Pole-Dipole, Wenner etc.
Take-outs internal	64 inline + 3 remote electrodes
Expandable	through Multiconnector up to 16320 electrodes. Unlimited number via Interconnect cable.

The switch matrix is divided into four blocks for effective use of all receiver channels available.

Electrode Test YES, Focus One and Pair

SAS LOG 300 logging unit (optional)

Measures both long and short Normal configuration. A lateral configuration is also included. A fluid resistivity cell, a temperature sensor and a water level indicator make it a complete electrical logging device. Refer to the separate leaflet for more details.

FIELD EQUIPMENT IMAGING

Consult your local ABEM distributor for full details of the various configurations available for you. A hint G30-2D = 30 m depth & 2D software.

Terrameter LS Imaging G30-2D	33 3002 01
Terrameter LS Imaging G70-2D	33 3002 02
Terrameter LS Imaging G140-2D	33 3002 03
Terrameter LS Imaging G200-2D	33 3002 04
Terrameter LS Imaging G275-2D	33 3002 05
Terrameter LS Imaging G30-3D	33 3002 06
Terrameter LS Imaging G70-3D	33 3002 07
Terrameter LS Imaging G140-3D	33 3002 08
Terrameter LS Imaging G200-3D	33 3002 09
Terrameter LS Imaging G275-3D	33 3002 10

With reservations for changes; our products undergo continuous development

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