



HIGH PRODUCTIVITY IN A COMPACT SOLUTION

ABEM Terrameter SAS 1000 is a highly competent Resistivity/IP system suitable for many different types of applications. By measuring both resistivity and IP simultaneously it minimizes expensive field time and it is expandable with a variety of accessories.

ROBUST AND DURABLE DESIGN

ABEM Terrameter SAS 1000 is designed for demanding field work in tough conditions and has been well proven during years of field work in all parts of the world. Its cast aluminium casing is rugged and robust, yet light and easy to carry, and meets the IEC IP 66 standard.

HIGH POWER CURRENT TRANSMITTER

ABEM Terrameter SAS 1000 comprises a powerful built-in constant current transmitter that runs on either a clip-on battery pack or an external power source.

HIGH QUALITY RECEIVER

The input channel is galvanically isolated and combined with a high resolution receiver which provides an excellent dynamic range.

EASY WORKFLOW

An intuitive user interface makes the ABEM Terrameter SAS 1000 easy to operate and measured data is exported and handled with the SAS Utility Software which also manages protocols and export of data to the most common interpretation software formats.

EXPANDABLE

A variety of accessories makes the Terrameter SAS 1000 capable to perform VES, 2D and 3D imaging as well as borehole logging surveys.



Receiver

Isolation	Input channel is galvanically separated
Input Voltage Range	+ / - 400 V
Input Impedance	10 MOhm minimum
Precision	Better than 0.1 % (in the range 4 - 200 ohm at 1 s integration)
Accuracy	1 % typical
Resolution	Theoretical 30 nV
Dynamic range	Up to 140 dB plus 64 dB automatic gain (at 1 s integration)
Automatic ranging	+ / - 2.5 V + / - 10 V + / - 400 V

Measuring

Resistivity	YES
SP	YES
IP	YES
Current pulse length	from 0.1 s to 4 s User selectable
IP Windows	Up to ten time windows
IP integration interval	Up to 8 s

Transmitter

Output power	100 W
Current transmission	True Current Transmitter
Output Current Accuracy	Better than 0.5 % at 100 mA
Output Current	1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 mA (operator set or auto ranging)
Maximum Output Voltage	+/- 400 V (800 V peak-to-peak)
Cycle type in resistivity mode	Plus-Minus-Minus-Plus
Cycle type in IP mode	Plus-Zero-Minus-Zero

General

Casing	Rugged Aluminium case meets IEC IP 66
Computer Display	PC compatible LCD, 200 x 64 pixels, 8 lines of 40 characters
I / O ports	Multifunction connector with current and potential including RS232 communication for external devices as PC, LOG and Imaging Banana connectors for current and potential

With reservations for changes; our products undergo continuous development

External devices	Lund Imaging System, SAS LOG
Memory Capacity	More than 1 500 000 readings
Power	Optional Clip-on rechargeable power pack or external 12V DC through SAS-EBA
Dimensions (W x L x H)	105 x 325 x 270 mm with SAS-EBA
Weight	5.1 kg
Ambient Temperature Range	- 5°C to + 50 °C operating

Accessories

Multi-electrode Survey Systems for 2D & 3D

LUND Resistivity & IP Imaging

A centrally switched system for automatic resistivity, IP profiling and vertical imaging.

See LUND brochure for more information

Borehole logging (SAS LOG 300 logging unit)

Cable length	300 m
Cable markings	Every meter
Probe diameter	40 mm
Weight (200 m)	15 kg
Dimensions (W x L x H)	330 x 750 x 225 mm

Survey modes and ranges:

16" short normal	0.05 - 100 000 ohmm
64" long normal	0.5 - 100 000 ohmm
18 feet lateral	0.5 - 100 000 ohmm
Fluid resistivity cell	0.05 - 100 000 ohmm
Self Potential	0.05 - 1000 mV
Temperature	0°C to + 60°C
Temperature precision	+/- 0.01°C (0 - 20°C) +/- 0.1°C (20 - 60°C)
Temperature accuracy	+/- 1°C
Water level indication	

Standard field equipment

1	ABEM Terrameter SAS 1000 includes: One SAS 1000 Receiver / Transmitter unit One RS232 Cable (9 pin D-sub) One SAS-EBA External Battery Adapter One SAS 1000 Software kit One SAS 1000 Documentation kit	33 0021 30
2	S & W sounding cable set includes: 2 x 250 m cable on reel 2 x 750 m cable on reel 4 x interconnect cable 4 x crocodile clip Transport plywood box	33 0012 40
3	Stainless steel electrode	33 0012 61
4	Non-polarizable electrode	33 0015 79

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Field Equipment

Consult your local ABEM distributor for full details of the various configurations available for you.