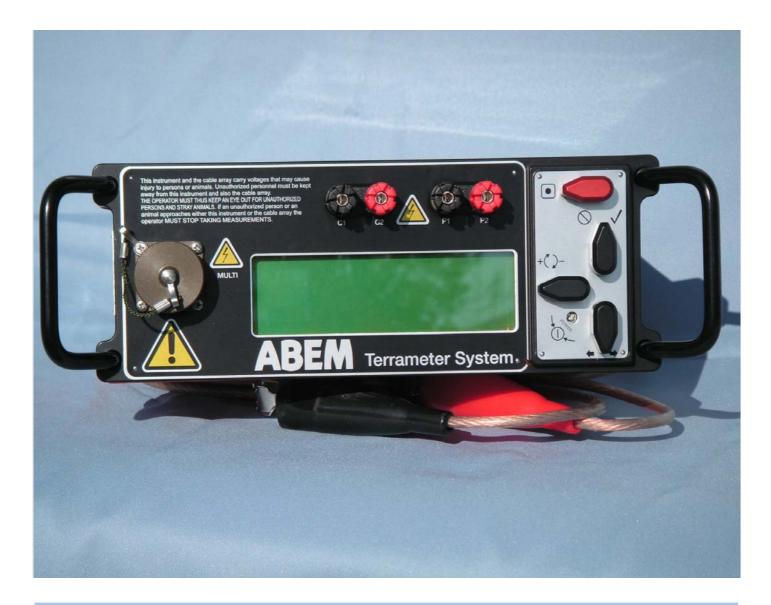
Terrameter SAS 1000



• Your choice, when information demands are at their peak! • Resistivity, IP and SP data at highest possible productivity



Technical Specifications: Terrameter SAS 1000 Resistivity, IP & SP

General

Computer	PC compatible			
Memory Capacity	More than 1 500 000 reading			
DisplayLCD,	200 x 64 pixels. 8 lines of 40 char.			
Multifunction connector	Current and Potential			
	including RS232 communication			
	for external devices as PC, LOG & Imaging			
External devices	LUND Imaging System, SAS LOG			
Power	Optional Clip-on rechargeable power pack or			
	external 12V DC through SAS-EBA			
Casing	Rugged cast Aluminium case, meets IEC IP 66			
Weight	5.1 kg			
Dimensions	105 x 325 x 270 mm (W x L x H) with SAS-EBA			
Ambient temperature -	5°C to + 50°C, operating			

Receiver

Resistivity	
Number of channels	1 bipolar, galvanically isolated
Input impedance	10 M Ω minimum
Resolution (theoretical)	30 nV
(WI Accuracy (typical)	1 %
(WI Precision (measured)	better than 0,1 %
(i	n the range 4 - 200, Ω at 1 second integration)
Dynamic range	Up to 140 dB plus 64 dB automatic gain
	(at 1 second integration)

Induced Polarisation (IP)

Number of channels	1 bipolar, galvanically isolated				
Input impedance	10 M Ω minimum				
Resolution	30 nV				
Type of IP meas.	Time domain chargeability (M)				
Initial time delay	10 ms up to 10 s in steps of 10 ms				
Precision (typical)	0,01 ms				
IP chargeabitity	Up to ten time windows on all four				
0 ,	. channels				
IP basic integr. Interval	20 ms/16.66 ms dep. on power				
-	line frequency				
Integration interval	Up to 8 seconds				
Dynamic range Up to	o 140 dB plus 64 dB automatic gain				
	(at 1 second integration time)				
Self Potential (SP)					
Number of channels	1 bipolar, galvanically isolated				
Input impedance	$10 \text{ M} \Omega$ minimum				
Maximum input voltage	400 Volt				
Automatic ranging	0-250 mV, 0-10 V, 0-400 V				
Resolution (theoretical)	30 NV				
Accuracy (typical)	1 %				
Accuracy	At 100 mV better than 0,2 %				
(measured at 1 second integr.) At 5 V better than 0,2 %					
(At 100 V better than 0,2 %				
Precision	At 100 mV better than 0,2 %				
(measured at 1 s integra					
	At 100 V better than 0,1 %				
Dynamic range Up to	o 140 dB plus 64 dB automatic gain				
	(at 1 second integration)				

Transmitter

Output current	1,2,5,10,20,50,100,200,500,1000 mA			
		(operator set or autoranging)		
Maximum output voltage		400 V (800 V peak-to-peak)		
Maximum output power		100 W		
Cycle type in resistivi	ty mode	Plus-Minus-Minus-Plus		

Cycle type in IP mode Pulse length Output current accuracy

Plus-Zero-Minus-Zero 0.1 to 4 seconds Better than 0,5 % at 100 mA

± 1°C

<u>Accessories</u>

Multi-electrode Survey Systems for 2D & 3D

LUND Resistivity & IP Imaging

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

See the LUND brochure for more information

Borehole logging

SAS LOG 300 logging unit

Cable length Cable markings Probe diameter Weight Dimensions	300 m Every meter 40 mm 21 kg 330x750x225 mm (WxLxH)
Survey modes and ranges	:
16 " short normal	0,05 -100 000 Ω m
64 " long normal	0,5 -100 000 Ω m
18 " lateral	0,5 -100 000 Ω m
Fluid resistivity cell	0,05 -100 000 Ω m
Self Potential	0,05 -1 000 mV
Temperature	0°C to + 50°C
Temperature precision	± 0,01°C (0-20°C)
	± 0,1°C (20-50°C)

Temperature accuracy Water level indication

STANDARD FIELD EQUIPMENT

1	ABEM Terrameter SAS 1000 includes: One SAS 1000 Receiver / Transm One RS232 Cable (9 pin D-sub) One SAS-EBA External Battery Ad One SAS 1000 / 4000 Software kii One SAS 1000 / 4000 Documenta	dapter t
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 4	Stainless steel electrode Non-polarisable electrode	33 0012 61 33 0015 79

With reservations for changes; our products undergo continuous devel



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