Terrameter SAS 4000



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



Technical Specifications: Terrameter SAS 4000 Resistivity, IP & SP

General

Computer PC compatible Memory Capacity More than 1 500 000 readings Display LCD, 200 x 64 pixels. 8 lines of 40 char. Multifunction connector Current and potential for all four channels 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 5.3 kg Dimensions 105 x 325 x 270 mm (W x L x H) with SAS-EBA -5°C to + 50°C, operating Ambient temperature

Receiver

Resistivity

Number of channels 4 bipolar, galvanically isolated Input impedance 10 M Ω minimum Resolution (theoretical) (WI Accuracy (typical) 1 % (WI Precision (measured) hetter than 0.1 %

(in the range 4 - 200, Ω at 1 second integration) Dynamic range Up to 140 dB plus 64 dB automatic gain

(at 1 second integration)

(at 1 second integration time)

Induced Polarisation (IP)

Number of channels 4 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) $0.01 \, \text{ms}$ IP chargeabitity Up to ten time windows on all four

channels 20 ms / 16.66 ms depending on power

line frequency Integration interval Up to 8 seconds Up to 140 dB plus 64 dB automatic gain Dynamic range

Self Potential (SP)

IP basic integr. interval

Number of channels 4 bipolar, galvanically isolated Input impedance 10 M Ω minimum Maximum input voltage 400 Volt 0-250 mV, 0-10 V, 0-400 V Automatic ranging Resolution (theoretical) 30 Nv Accuracy (typical) 1 % Accuracy At 100 mV better than 0,2 %

(measured at 1 second integration) 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 second integration) At 5 V better than 0,1 % At 100 V better than 0,1 %

Up to 140 dB plus 64 dB automatic gain Dynamic range (at 1 second integration)

Transmitter

1,2,5,10,20,50,100,200,500,1000 mA Output current (operator set or autoranging)

400 V (800 V peak-to-peak)

Maximum output voltage 100 W Maximum output power

Cycle type in resistivity mode Plus-Minus-Minus-Plus Cycle type in IP mode Plus-Zero-Minus-Zero 0.1 to 4 seconds Pulse length Output current accuracy Better than 0,5 % at 100 mA

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 the 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 330x750x225 mm (WxLxH) Dimensions

Survey modes and ranges:

16 " short normal $0.05 - 100\ 000\ \Omega$ m 64 " long normal $0.5 - 100\ 000\ \Omega$ m 18 " lateral $0.5 - 100~000~\Omega$ m Fluid resistivity cell $0,05 - 100 000 \Omega m$ 0,05 -1 000 mV Self Potential 0°C to + 50°C Temperature ± 0,01°C (0-20°C) Temperature precision $\pm 0.1^{\circ}C (20-50^{\circ}C)$ ± 1°Ć Temperature accuracy Water level indication

STANDARD FIELD EQUIPMENT

33 0020 30 ABEM Terrameter SAS 4000 includes:

> One SAS 4000 Receiver / Transmitter unit One RS232 Cable (9 pin D-sub) One SAS-EBA External Battery Adapter One SAS 4000 Software kit One SAS 4000 Documentation kit

Multi-Channel Adapter 33 0020 02 Tools and Spares kit 33 0020 01 38 3000 02 Tool Bag S & W sounding cable set 33 0012 40 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

Stainless steel electrode 33 0012 61 33 0015 79 Non-polarizable electrode

With reservations for changes; our products undergo continuous development



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