

ABEM WalkTEM

TRANSIENT ELECTROMAGNETICS

Advanced TEM made easy

ABEM WalkTEM is a transient electromagnetic system designed for surveys in the geologic near-surface. Typical applications include groundwater and salinity studies, mineral exploration, geotechnical and environmental investigations.

General

Casing	Rugged Aluminum case meets IEC IP66
GPS receiver	50 channels SirFstarIII chip
Display	8,4" Active TFT LCD, full color, daylight visible, resolution of 800x600
I / O ports	2 x KPT-19 for receiver coils
Power	2x12 V, Ah internal NiMH power pack 10-34 VDC external power
Battery chargers	Integrated for internal batteries
Dimensions (W x L x H)	390x210x320 mm
Weight	14 kg
Ambient Temperature Range	-20 °C to +60 °C operating ¹ -30 °C to +70 °C storage ²

Note 1: Measuring speed may be reduced in high ambient temperatures and internal power dissipation.

Note 2: Non condensing

Integrated Field PC

Processor	Low power Intel Atom, 1,6 GHz
Operating System	Windows XP Pro
Internal RAM	2 GB (DDR SO-DIMM module)
Hard disk capacity	Solid state disk of 100 GB or greater
I / O port	2 x USB 2.0 ports
Network interfaces	1 x IEEE 802.3 TP-10/100/1000 RJ-45 IP 67
WiFi interface	Integrated with built-in antenna

Transmitter

Output current	15 A
On/Off Time	Adjustable from 1 ms to 500 ms in microsecond steps



Receiver

Receiver input	2 Channels
Sampling	1 MHz each channel
Dynamic range	170 dB system 140 dB instantaneously
Repetition rate	From 500 Hz to 0.5 Hz in microsecond steps
Stacking Options	1 to 65,536 in single steps
Windows (Gates)	Up to 200 depending on time series selected in 3 sets (optional, user selectable)
Functions Measured	Transient response, current battery voltage (external an internal), automatic gain/offset calibration, layer model (full data inversion)

Field Accessories

RC-5 Active magnetic receiver coil (frame)

Effective Area	5 m ² (20 turns)
Bandwidth	450 kHz
Dimensions (W x L x H)	590x590x90 mm

TL-10k Flexible transmitter coil (cord)

Effective Area	10,000 m ²
Dimensions	100x100 meters
Conductor cross-sectional area	4 square mm

RC-200 Active Flexible magnetic receiver coil (cord)

Effective Area	200 m ² (2 turns)
Bandwidth	100 kHz
Dimensions	10x10 meters

L-40k Flexible transmitter coil (cord)

Effective Area	40,000 m ²
Dimensions	200x200 meters
Conductor cross-sectional area	4 square mm

TL-400

Effective Area	400 m ²
Dimensions	20x20 meters

TL-1k6 Flexible transmitter coil (cord)

Effective Area	1,600 m ²
Dimensions	40x40 meters
Conductor cross-sectional area	2.5 square mm



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Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure, Environment – survey of environmental risks and geological hazards, Water – mapping and survey of water supplies and Minerals – efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.

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