

Technical Specification

The ABEM WalkTEM 2 is a user-friendly, rapid survey solution that can provide precise resistivity models directly in the field for the search, mapping and monitoring of groundwater, mineral deposits, and environmental change. The system is scalable, with modular hardware, which allows expansion of the instrument capabilities to keep up with your changing needs.



SYSTEM CONFIGURATIONS	RX Standard + TX-8*	RX Advanced + TX-8*	RX Advanced + TX-20*	RX Advanced + TX-60
TX min. / max. output current	1 Amp / 8 Amps	1 Amp / 8 Amps	1 Amp / 20 Amps	7 Amps / 60 Amps
Number of RX channels	1	2	2	2
Onboard inversion	No	Yes	Yes	Yes
Compatible TX Loops	20 x 20 m, 40 x 40 m	All loops	All loops	All loops
Compatible RX Coils	RC-5 only	RC-5 & RC-200	RC-5 & RC-200	RC-5 & RC-200
Dual moment	Yes	Yes	Yes	No
Waveform recording & analysis	Optional	Yes	Yes	Yes
Damping resistor selector tool	Optional	Yes	Yes	Yes
Internal damping resistor array	Yes	Yes	Yes	No
Auto-repetition for monitoring	Yes	Yes	Yes	Yes

*RECEIVER & TRANSMITTER UPGRADES ARE INSTALLED REMOTELY

RX UNITS

Gates/Windows	Up to 200
Sample rate	1 MHz per channel
Dynamic range	170 dB system, 140 dB instantaneously
Stacking/Cycles	1 to 65,536 in single steps
Calibration values	Automatic selection based on configuration
Onboard computer	Intel Pentium N4200 or better
Internal ram	Minimum 4GB
Hard disk capacity	Solid state disk (SSD) 100 GB or greater
Operation system	Windows 10
Display	8.4" Active TFT LCD, 800x600, full colour, daylight visible, 6mm shatterproof screen
I/O ports & interfaces	1x KPT19 for RX-TX synchronization 2x KPT19 for receiver antennas 1x Gigabit Ethernet 2x USB 3.0 ports WiFi with built-in antenna
GPS receiver	Built-in GPS
Service point & upgrades	Via internet connection

TX UNITS

Pulse on / off times	1 ms to 500 ms, in 1µs steps
Repetition rate	500 Hz to 0.5 Hz
Duty cycle	10 % - 50 % pre-loaded scripts, fully customizable
Upgrades	Via internet connection (TX-8 / TX-20)

RECEIVER COILS

RC-5	Active magnetic receiver coil (rigid)
Bandwidth	450kHz
Effective area / dimensions	5 m ² (20 turns) / 59 cm x 59 cm x 9 cm
RC-200	Active magnetic receiver coil (flexible)
Bandwidth	100kHz
Effective area / dimensions	200 m ² (2 turns) / 10 x 10 m

TRANSMITTER LOOPS

TL-400	Single turn flexible transmitter loop
Effective area / dimensions	400 m ² / 20 m x 20 m x 2.5 mm ²
TL-1k6	Single turn flexible transmitter loop
Effective area / dimensions	1600 m ² / 40 m x 40 m x 2.5 mm ²
TL-10k HP6	Single turn flexible transmitter loop
Effective area / dimensions	10,000 m ² / 100 m x 100 m x 6.0 mm ²
TL-40k HP6	Single turn flexible transmitter loop
Effective area / dimensions	40,000 m ² / 200 m x 200 m x 6.0 mm ²

PHYSICAL	RX Standard / Advanced	TX-8 / TX-20	TX-60
Housing construction	Rugged ABS/PMMA	Rugged ABS/PMMA	Rugged aluminium casing
IEC protection rating	IP66	IP66	IP66
Ruggedized connectors	Yes	Yes	Yes
Dimensions	39 x 21 x 32 cm	19 x 21 x 32 cm	39 x 21 x 32 cm
Weight	8.3 kg incl. batteries	4.7 kg	14 kg
Internal power	2x 11.25 V, 6.4 Ah batteries Li-Ion, hot-swappable, built-in charger	None	12 V 8 Ah NiMH battery
External power	10-18 V DC	10-34 V DC	24-250 V DC
Cooling	Passive convection	Passive convection	Active (internal fans)
Temperature range		Storage ¹ : -20 °C to +70 °C Operating ^{2, 3} : -20 °C to +60 °C	

Note 1: Non-Condensing
Note 2: LCD performance not guaranteed below 0 °C
Note 3: Measurement speeds may be reduced in high ambient temperatures



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