

KT-10 Magnetic Susceptibility and Conductivity Meters

Magnetic Susceptibility Meters · Conductivity Meters · Combined Magnetic Susceptibility/Conductivity Meters

The KT-10 meters are a line of handheld instruments that measure the magnetic susceptibility and/or conductivity of a geological sample or core. The meters are available in circular and rectangular coil designs to measure large or small sized samples, respectively. The KT-10 meters produce repeatable results, and include features such as corrections for split and full cores, the ability to input information to correlate measurements to their appropriate depths, a built-in microphone to record voice notes, and the GeoView data management/visualization software. With its compact and rugged design, the KT-10 meters are ideal instruments for use in the field, core shack, or lab.

Benefits:

- · Stand-alone units with display and data storage.
- High sensitivity for magnetic susceptibility (10⁻⁶ SI units) and conductivity (1 S/m).
- Two modes of operation: discrete measurements or continuous scanning (20 readings per second).
- Split and full core corrections for standard drill rod diameters (AQ, BQ, HQ, NQ and PQ) and non-standard sizes (2.4 to 12 cm).
- Borehole logging mode to correlate measurement results to their appropriate depths.
- Data running average and standard deviation values displayed during discrete measurements; data averages and maximum values provided during scanning.
- Pin mode to measure samples with uneven surfaces (available with circular coil designs only).
- Built-in microphone to record voice notes with measurements.
- GeoVision App to view scanner profiles in real-time on an Android operated device.
- · GeoView software to organize and visualize data on a PC.
- Upgrades and support available via the internet



KT-10 v2 Magnetic Susceptibility Meter (Circular Coil)



KT-10 S/C Magnetic Susceptibility/Conductivity Meter



KT-10 v2 (Rectangular Coil)



KT-10 S/C (Circular Coil)

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KT-10 Models

Dedicated Magnetic Susceptibility Meters		
KT-10 v2 KT-10R v2		
 <u>Circular</u> coil design Sensitivity: 10⁻⁶ SI units Measurement range: 0.001 x 10⁻³ to 1999.99 x 10⁻³ SI units Pin mode available for measuring uneven surfaces KT-10 Plus (Optional) * 	 Rectangular coil design Sensitivity: 10⁻⁶ SI units Measurement range: 0.001 x 10⁻³ to 1999.99 x 10⁻³ SI units KT-10R Plus (optional) * 	

Dedicated Conductivity Meters		
KT-10 C	KT-10R C	
 <u>Circular</u> coil design Absolute conductivity meter, calibrated using multipoint algorithm Sensitivity: 1 S/m Measurement range: 1 to 100,000 S/m Pin mode available for measuring uneven surfaces KT-10 Cx (optional) * 	 Rectangular coil design Absolute conductivity meter, calibrated using multi-point algorithm Sensitivity: 1 S/ m Measurement range: 1 to 100,000 S/m KT-10R Cx (optional) * 	

Combined Magnetic Susceptibility/Conductivity Meters		
KT-10 S/C	KT-10R S/C	
 <u>Circular</u> coil design Sensitivity: Magnetic susceptibility 10⁻⁶ SI units Conductivity: 1 S/m 	 Rectangular coil design Sensitivity: Magnetic susceptibility 10⁻⁶ SI units Conductivity: 1 S/m 	
 Measurement range: Magnetic susceptibility: 0.001 x 10⁻³ to 1999.99 x 10⁻³ SI units Conductivity: 1 to 100,000 S/m 	 Measurement range: Magnetic susceptibility: 0.001 x 10⁻³ to 1999.99 x 10⁻³ SI units Conductivity: 1 to 100,000 S/m 	
 Pin mode available for measuring uneven surfaces KT-10 Plus S/C (optional) * KT-10R S/Cx (optional) * KT-10R Plus S/Cx (optional) * 	 KT-10 Plus S/C (optional) * KT-10R S/Cx (optional) * KT-10R Plus S/Cx (optional) * 	

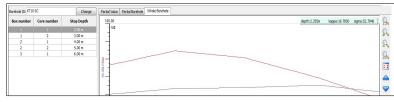
^{*} See the Options section on the next page for a full description of the Plus and Cx Options available



GeoView Software



Data Organization



Data Visualization

GeoView is an easy-to-use data management and visualization software program that is compatible with all Windows operating systems.

It enables users to download, store and view a KT-10 meter's data on a PC and export it to Excel. Data is organized by date or by instrument serial number, when there are data from multiple meters. Averaged readings, voice notes, and GPS positions (when paired with a Bluetooth GPS unit) can also be reviewed.

The software can also be used as a data visualization tool. Numerical values from discrete measurements are displayed in a table format; data from scanned measurements are displayed as a graph.

Options

- Upgrade a dedicated KT-10 v2 or KT-10 C to a KT-10 S/C Magnetic Susceptibility/Conductivity Meter.
- "Plus" Option for Magnetic Susceptibility Measurements:
 - Increase measurement range to 10 SI units.
 - Obtain magnetite iron ore concentration estimates (%) directly from the display
- "Cx" Option to increase conductivity measurement range to 200,000 S/m

Magnetic Susceptibility Calibration Pads

Two calibration pads are available to recalibrate the magnetic susceptibility measurements, or to verify the meter's readings. The calibration pads are available in low and high ("Plus" options only) susceptibility ranges.

	Low	High
Typical Nominal Susceptibility Values	34 x 10 ⁻³ SI	2500 x 10 ⁻³ SI
Diameter:	145 mm	145 mm
Height:	70 mm	70 mm
Weight:	2.65 kg	2.65 kg
Colour	Orange	Blue

KT-10 Plus v2



Magnetic Susceptibility Calibration Pads

• Conductivity Reference Pads

Three reference pads are available to verify conductivity measurements. Each pad has been independently tested using different methods for measuring conductivity (AC, DC and impedance bridges). The reference pads are available with low, medium and high conductivity ranges.

	Low	Medium	High
Typical Nominal Conductivity Values	9 S/m	700 S/m	85,000 S/m
Diameter	152 mm	128 mm	152 mm
Height	50 mm	50 mm	50 mm
Weight	1.2 kg	1.0 kg	1.8 kg
Colour	Red	Yellow	Green



Conductivity Reference Pads

Email: sales@terraplus.ca

Website: www.terraplus.ca

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Terraplus



Specifications	
Operating Frequency:	10 kHz
Measurement Frequency:	20 readings per second in Scan Mode, storing 4 averaged readings per second.
Display:	High contrast LCD display with 104 x 88 pixels
	4 GB: 4,000 total records stored *
Memory:	* 4,000 scanner measurements, with up to 480 data points per record (total of 1,920,000 individual data points) Or
	* 4,000 discrete measurements, with 120 seconds of voice notes per reading.
	Note: discrete and scan records can be combined.
Control:	One button with up / down functionality
Data Input/Output:	USB and Bluetooth (GPS/phone pairing)
Power Supply:	2 'AA' batteries (alkaline or rechargeable)
Battery Life:	Up to 2,000 measurements without voice recorder while using rechargeable batteries
Operating Temperature Range:	-20°C to 60°C
Meter Dimensions:	200mm x 57 mm x 32 mm
Coil Dimensions: Circular Coil: 65 mm (diameter)	
Con Dimensions.	Rectangular Coil: 65 mm (length) x 30 mm (width)
Weight:	0.33 kg with 2 'AA' alkaline batteries installed

Specifications subject change without notice (25-02-16)

Instrument Contents			
KT-10 v2 & KT-10R v2	KT-10 C & KT-10R C	KT-10 S/C & KT-10R S/C	
(1) KT-10 or KT-10R Meter	(1) KT-10 C or KT-10R C Meter	(1) KT-10 S/C or KT-10R S/C Meter	
2) Pins (circular coil designs only)	(2) Pins (circular coil designs only)	(2) Pins (circular coil designs only)	
2) AA alkaline batteries	(2) AA alkaline batteries	(2) AA rechargeable batteries & charger	
1) USB data transfer cable	(1) USB data transfer cable	(1) USB data transfer cable	
1) Carrying pouch with foam Insert	(1) Carrying pouch with foam Insert	(1) Carrying pouch with foam Insert	
1) GeoVision Android App	(1) GeoVision Android App	(1) GeoVision Android App	
1) GeoView software CD	(1) GeoView software CD	(1) GeoView software CD	
1) Operations manual	(1) Operations manual	(1) Operations manual	
1) Quick reference guide	(1) Quick reference guide	(1) Quick reference guide	
		(1) Rugged transportation case	
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