

KT10 Data Sheet

Through recording the magnetic susceptibility & conductivity of exposed bedrock it is possible to construct a comprehensive infield assessment of the changes to geochemical and mineralogical composition along outcrops, thus ensuring complex lenses, enclaves and other bodies are identified and mapped correctly. The Terraplus KT-10 magnetic susceptibility & conductivity meters are tailored towards characterising rock samples or drill cores by offering interactive metadata and QC functions to aid maintain data quality throughout a survey.



KT10 measuring Conductivity and Magnetic Susceptibility values from a core sample. Image courtesy of Terraplus.

The KT-10 is capable of recording single measurements or being used in scan mode which enables a user to record magnetic susceptibility & conductivity profiles of drill cores, monolith samples or exposed sections. Results collected in scan mode are able to be transmitted via Bluetooth and displayed/ recorded in real time to an external device running GeoVision, an Android App supplied with the instrument. GeoVision enables the operator to browse through records, display field measurements and better manage/ adapt their field acquisition strategy to account for observations made during data acquisition.

KT-10 Magnetic Susceptibility and Conductivity Meter. Each instrument is supplied with a pre-installed calibration curve derived from samples containing different concentrations of magnetite. Alternatively operators are able to formulate and save their own calibration curves.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	20cm x 5.7cm x 3cm	0.3kg

Technical Specifications

Sensitivities:	Susceptibility: 1×10^{-6} SI Unit
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	Conductivity: 1 S/m
Measurement Range:	Susceptibility: 0.001x10 ⁻³ to 1,999.99 X 10 ⁻³ SI Units. Conductivity: 1 to 100,000 S/m.
Operating Frequency:	10 kHz
Measurement Frequency:	20 readings per second (in Scan mode, 5 readings averaged together and 4 readings /second stored).
Display:	High contrast LCD graphic display with 104 x 88 pixels.
Memory:	4 GB: 4,000 Total Records Stored
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 3,000 measurements without voice recorder (with alkaline batteries).
Operating Temperature:	-20 °C to 60 °C.
GeoView PC Software:	Supports all Windows 32 or 64 bit operating systems
GeoVision App:	Android operating system (OS) must be version 2.3.3 or higher.

Gallery



KT10 linked with GeoVision App. Image courtesy of Terraplus.