



# ■ Mag Susc-Conductivity combination ■ **KT-10 S/C** ■

In cooperation with Terra**plus**, Canada, Radiation Detection Systems AB is pleased to introduce the New KT-10 S/C System which measures simultaneously the Magnetic Susceptibility and Conductivity of samples or Core on two different frequencies. It also includes the standard KT-10 benefits such as Bluetooth Wireless Communication to store Readings integrated with GPS coordinates, Wireless Data Transfer, more Accurate Scanning and Windows Visualization Software

## Major Benefits

- **KT-10 S/C Combined Magnetic Susceptibility and Conductivity**

The KT-10 S/C measures simultaneously Magnetic Susceptibility and Conductivity on either samples or core.

- **Dual Frequency System**

The KT-10 S/C is a Dual Frequency System helping the end user to **separate** better the magnetic susceptibility **from** conductivity in specific measurements

- **Android Application for Real Time Profiling**

The KT-10 S/C includes the standard Software Application to display Real Time Scanner Profile on Android platform operated Smart Phones. Their large display will show Real Time Animated Graphical output while scanning and can be used as a KT-10S/C memory Data Browser to display field measurements/records. This allows user to Pan and Zoom on Scanner Graph. Additional text notes can be added with your Android Smart Phone, you can also add text notes to the data stored on the KT-10 S/C

- **Improved Data averaging**

The KT-10 S/C has a user configurable data averaging capability. You can store a number of consecutive readings from a sample, their average and their standard deviation for quality control.

- **Larger Memory**

The KT-10 S/C stores up to **1500** readings in its internal non-volatile memory. Average readings and standard deviation are also stored. The operator can record up to one minute of comments associated to each specific reading through the KT-10 digital voice recorder.

- **More Accurate Scanning**

The KT-10 S/C scans up to 10 readings per second on two frequencies The operator can also add markers to the data set to identify the location of those measurements.

- **Improved PC Interface**

The KT-10 S/C now includes **GeoView Multiplatform** software, for Data Transfers and Data Visualization. It is now possible to download and visualize your KT-10 S/C data with the click of a few buttons. **GeoView** can also play back the voice notes stored along side your readings, change KT-10 S/C settings, transfer your data to a spreadsheet and view or export GPS path in Google Earth compatible format.



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## Other Benefits

- **Variable Audio Capability**

When used in the **Scan Mode**, the KT-10 S/C speaker allows the operator to monitor the variation in the magnetic susceptibility measurements with a variable audio tone, which reflects the relative intensity of the reading. The voice recorder allows the recording and replaying of voice messages through the speaker as well

- **Large LCD Display**

A high contrast LCD is utilized for the display of the magnetic susceptibility readings and it also serves as the interface for operating the instrument. Together with two buttons and graphical menus, operators can interactively navigate the different functions. Icons allow the operator to monitor the battery status, Bluetooth connectivity, GPS support and more.

- **USB Data Transfer**

The KT-10 S/C uses USB communication standards as the default mode of communication. It allows fast data transfer of measured values and digital voice streams for the unit to any Windows PC. The USB can also be used for firmware upgrades and parameter settings.

- **Bluetooth Connectivity**

Bluetooth is already standard with the KT-10 S/C. So when an operator uses a Bluetooth enabled GPS, it allows them to store the GPS coordinates in the KT-10 S/C memory along with the readings. Bluetooth can also be used to download readings **wirelessly** from the unit along with the voice streams.

- **Smaller and Easier to use**

The KT-10's S/C smaller size and ergonomic design make it easier to use and carry. Its interactive menu also facilitates its operation.

- **Power Supplies**

The KT-10 S/C standard configuration is available with two rechargeable AA size cell batteries, which allows the operator to take up to 4000 readings when the optional voice recorder is not being used.

- **More Reliable**

The KT-10 S/C meets IP65 standards, and is therefore protected against dust and provides additional protection in rainy or high humidity conditions.

- **Storage/Transportation**

The KT-10 S/C is delivered in a small pouch with a foam insert. The pouch can be mounted on a belt and comfortably carried on the waist. A set of spare batteries and PIN can be also placed in the pouch for storage.

- **Programmable Calibration**

You can now recalibrate your KT-10 S/C, either by using the optional Susceptibility Standard or with a known sample which susceptibility is closer to the samples or cores you want to measure.



## Standard Configuration

The KT-10 S/C standard System is supplied with:

- KT-10 S/C Console with pin, and wrist strap
- **Android Application**
- Two Rechargeable AA Batteries and Charger
- USB Cable
- CD with GeoView Data Transfer Software
- Operations Manual and a Quick Start Guide
- Small Pouch with foam insert
- White Cardboard Box

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## GeoView PC Interface Software:

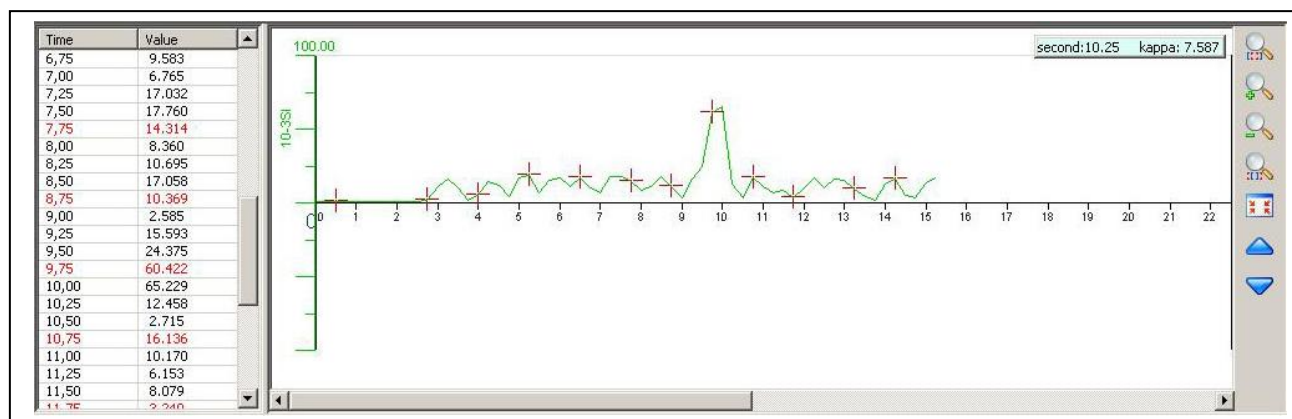
- **Data Organization**

The **GeoView Multiplatform** Software allows you to organize your KT-10 S/C data by date and by serial number. It also facilitates the data transfer from your KT-10 S/C into your data base for further correlation and interpretation. The GeoView is compatible with Windows and Linux Operating Systems.

As you can see below, averaged readings are grouped together with records containing date, time, value, voice notes and optional GPS positions, all in one convenient location. Users can also add custom fields to enter field data which is then contained in the exported file.

Id	Time	Kappa[10-35]	Average +/- std	Information	Voice note	Latitude	Longitude	Altitude	Description	Sample
1514	4:51:44 PM	322.016				43o54'5.92"N	78o49'25.79"W	90m		
1515	4:52:02 PM	307.251				43o54'5.92"N	78o49'25.79"W	90m		
1516	4:52:19 PM	309.435				43o54'5.62"N	78o49'25.51"W	90m		
1517	4:52:31 PM	303.711	310.102 +/- 6.121			43o54'5.62"N	78o49'25.51"W	90m		
1518	4:52:52 PM	306.161				43o54'5.87"N	78o49'25.69"W	109m		
1519	4:53:06 PM	300.090								
1520	4:53:23 PM	298.038				43o54'5.87"N	78o49'25.72"W	109m		
1521	4:53:54 PM	306.528				43o54'6.02"N	78o49'25.78"W	119m		
1522	4:54:07 PM	299.697				43o54'6.02"N	78o49'25.78"W	119m		
1523	4:54:59 PM	300.685	301.866 +/- 3.578			43o54'5.81"N	78o49'25.44"W	97m		
1524	4:56:20 PM	333.007				43o54'5.90"N	78o49'25.55"W	101m		
1525	4:56:36 PM	332.195				43o54'5.90"N	78o49'25.55"W	101m		
1526	4:56:47 PM	329.013				43o54'5.90"N	78o49'25.55"W	101m		
1527	4:57:01 PM	333.279				43o54'5.78"N	78o49'25.55"W	92m		
1528	4:57:22 PM	328.360	331.171 +/- 2.310			43o54'5.98"N	78o49'25.60"W	109m		

- **Data Visualization**



The Scanned data is displayed in graphical mode. Using markers can quickly identify visual indicators or units of measurement along the sample

## **KT-10 Plus Iron Ore Concentration Measurement Estimates**

The KT-10 Plus is able to measure iron ore samples and core up to 10 SI units. With this extended range and pre-installed calibration curve, it is possible to obtain the concentration estimate of iron ore directly from the KT-10 Plus. If the samples and cores you are working with have a different composition or structure than those used to set up the calibration curve included in your KT-10 Plus, you can program yourself up to 2 calibration curves which are specific to the samples and cores you are measuring.

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## Magnetic Susceptibility Standard

A Magnetic Susceptibility standard is now available as an option for the KT-10 S/C. The standard is manufactured from a suitable Mn-Zn Ferrite compacted with mudstone. Its purpose is to confirm that the KT-10 S/C is operating properly or to recalibrate the unit.

Nominal susceptibility will vary between standards

Typically	$34 \times 10^{-3}$ SI
Diameter	145 mm
Height	70mm
Density	2.2g/ccm
Weight:	2.65kg



## SPECIFICATIONS

<b>Sensitivities:</b>	Susceptibility better than $10^{-3}$ SI Units in dual frequency mode, up to 2 SI Units Conductivity 0.1-100,000 S/m
<b>Measurement range:</b>	$0.001 \times 10^{-3}$ to $1.999 \times 10^{-3}$ SI Units Auto-Ranging
<b>Operating frequency:</b>	10 kHz 20 kHz
<b>Measurement frequency:</b>	10 readings per second in two frequencies ( in Scan mode, 5 readings averaged together and 4 readings /second stored
<b>Display:</b>	High Contrast LCD Graphic Display with 104 x 88 pixels
<b>Memory:</b>	Up to 1500 measurements or 1000 measurements with one minute of comments per reading
<b>Control:</b>	1 button with up / down function & pin for rough surfaces
<b>Data Input/Output:</b>	USB, Bluetooth with GPS link via Bluetooth
<b>Power Supply:</b>	2 AA Rechargeable Batteries
<b>Battery life:</b>	Up to 4000 readings without voice recorder
<b>Operating temperature:</b>	-20 °C to 60 °C
<b>Dimensions:</b>	200mm x 57mm X 30mm
<b>Coil Diameter:</b>	65 mm with a 45 degree angle
<b>Weight:</b>	0.30 kg

*The KT-10 is made in the EU by Georadis.*

*Specifications are subject to change without notice*

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