



■ Magnetic susceptibility meter ■ **KT-10 Plus** ■

Digital easy-to-use susceptibility meter

The KT-10 Plus is able to measure iron ore samples and cores up to 10 SI units while providing all the benefits offered by its predecessor, model KT-10. With this extended range and the appropriate calibration curves, it is now possible to obtain the concentration estimate of iron ore directly from the KT-10 Plus which allows the operator to speed up the screening of samples to be sent to the lab for chemical assay.

Applications

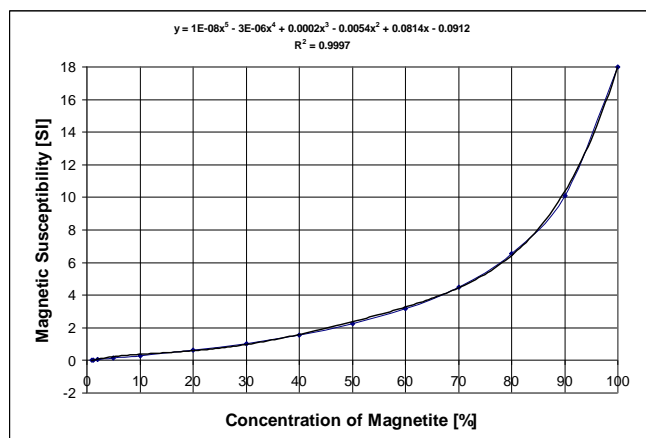
Mining exploration
Geological & geophysical mapping
Magnetite ore assays
Open pit and underground production planning

Benefits over earlier models

- **Measurement Range Increased to 10 SI Units**
The KT-10 Plus has an increased range of operation, up to 10 SI units. Operators can now measure and analyze samples with high magnetite content.

Pre-installed Calibration Curve

One calibration curve is standard in the KT-10 Plus firmware. This calibration curve is based on magnetite with different concentrations.



Direct Iron ore Concentration Measurement estimates can be obtained from the KT-10 Plus by using the appropriate calibration curves.

- **Programmable Calibration Curve Capability**

If the samples or 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 3 calibration curves which are specific to the samples and cores you are measuring. These calibration curves are obtained by taking a number of KT-10 Plus magnetic susceptibility measurements from a range of different samples with known concentration values from assay results or XRF measurements. Once these appropriate magnetic susceptibility readings with their associated iron ore concentration have been transferred to the **GeoView** software and processed, it calculates a calibration curve which can be transferred to the KT-10 Plus unit.

- **Flexibility in Transferring Calibration**

If you own a number of KT-10 Plus units and you have set up your own calibration curve, you can use GeoView Software to transfer this specific calibration to a number of units.

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More Benefits

High Sensitivity and Dynamic Range

The KT-10 Plus maintains the same maximum sensitivity of 1×10^{-6} SI units when used on smooth surfaces. It also has the ability to measure high magnetic susceptibility samples and cores up to 10 SI units

- **Better Sample Measurements**

The KT-10 Plus can be used with a pin for rough surface measurements or without a pin when you can establish direct contact with the sample. When pressing the pin against field samples or outcrops, and when the susceptibility meter is kept parallel to the surface, it provides a reading with increased accuracy. It also automatically corrects and displays the true magnetic susceptibility.

- **Improved Data averaging**

The KT-10 Plus 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 Plus stores up to **3000** 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 Plus digital voice recorder.

- **More Accurate Scanning**

The KT-10 Plus scans up to 20 readings per second. The operator can also add markers to the data set to identify the location of those measurements.



- **Improved PC Interface**

The KT-10 Plus now includes **GeoView**, a Windows[®] based software, for Data Transfers and Data Visualization. It is now possible to download and visualize your KT-10's Plus 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 Plus settings and export your data to database / spreadsheet compatible formats.

- **Variable Audio Capability**

When used in the **Scan Mode**, the KT-10 Plus 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.

- **USB Data Transfer**

The KT-10 Plus 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.

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- **Bluetooth Connectivity**

Bluetooth is already standard with the KT-10 Plus. So when an operator uses a Bluetooth enabled GPS, it allows them to store the GPS coordinates in the KT-10 Plus 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 Plus smaller size and ergonomic design make it easier to use and carry. Its interactive menu also facilitates its operation.

- **Power Supplies**

The KT-10 Plus standard configuration is available with two Alkaline AA size cell batteries, which have an expected 100 hours of operation when the optional voice recorder is not being used.

- **More Reliable**

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

- **Storage/Transportation**

The KT-10 Plus 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.

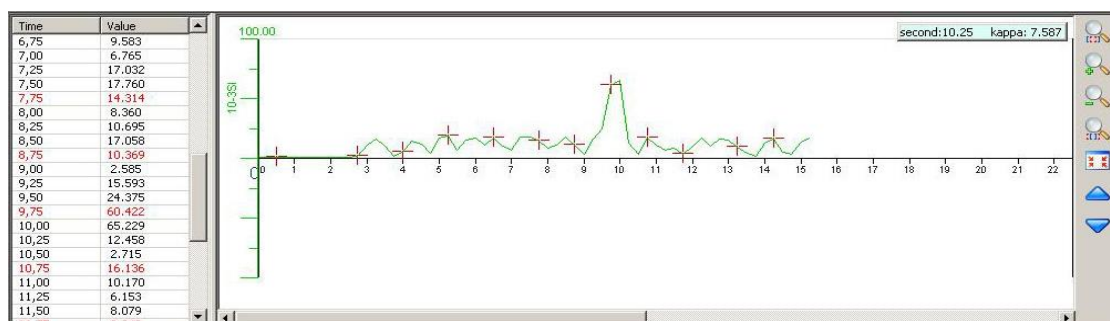
- **Programmable Calibration**

You can now recalibrate your KT-10 Plus, 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.

The **GeoView** software allows you to organize your KT-10 Plus data by date, time and by serial number. It also facilitates the data transfer from your KT-10 Plus into your data base for further correlation and interpretation.

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.

Id	Time	Kappa[10-35]	Average +/- std	Information	Voice note	Latitude	Longitude	Altitude	Description	SampleID
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		
1529	4:58:38 PM			Scanner		43o54'5.98"N	78o49'25.60"W	109m		
1530	4:59:03 PM			Scanner		43o54'5.79"N	78o49'25.64"W	106m		
1531	5:00:12 PM			Scanner		43o54'5.87"N	78o49'25.70"W	106m		
1532	5:01:22 PM			Scanner		43o54'5.87"N	78o49'25.70"W	106m		
1533	5:02:21 PM			Scanner		43o54'5.87"N	78o49'25.70"W	106m		



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

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Standard Configuration

The KT-10 Plus standard System is supplied with:

- KT-10 Plus Console with pin, and wrist strap
- Two Alkaline AA Batteries
- Spare Pin
- USB Cable
- CD with GeoView Data Transfer Software
- Operations Manual and a Quick Start Guide
- Small Pouch with foam insert
- White Cardboard Box

Technical specifications

Sensitivity:	1×10^{-6} SI Units
Measurement range:	0.001×10^{-3} to 9999.99×10^{-3} SI Units Auto-Ranging (10 SI Units)
Operating frequency:	10 kHz
Measurement frequency:	20 times per second (in Scan mode, 5 readings averaged together and 4 readings /second stored)
Calibration Curves:	1 Calibration Curve is included for magnetite with another 2 additional calibration curves to be programmed by the operator
Display:	High Contrast LCD Graphic Display with 104 x 88 pixels
Memory:	Up to 3000 measurements or 2000 measurements with one minute of comments per reading.
Control:	1 button with up / down function & pin for rough surfaces
Data Input/Output:	USB, Bluetooth with GPS link via Bluetooth
Power Supply:	2 AA Alkaline Batteries or 2 optional AA Rechargeable Batteries
Battery life:	Approximately 100 hours without voice recorder
Operating temperature:	-20 °C to 60 °C
Dimensions:	200mm x 57mm X 30mm
Coil Diameter:	65 mm with a 45 degree angle
Weight:	0.30 kg

*The KT-10 is made in the EU by Georadis
Specifications subject to change without notice*

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