

# KT-10 Magnetic Susceptibility Meter

with



## Quick User's Guide

Version 2.0



**Terraplus**  
Geophysical Equipment Supplier



Sales, Support and Customisation

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## CONTROLS

To control the KT-10, use the button sequence as follows:



**Short Button Press UP:** is a single short push of the button pointing to screen (upper half) **SBP ▲**

**Long Button Press UP:** hold the button in its upper half for more than one second or until a reaction appears on display **LBP ▲**

**Short Button Press DOWN:** is a single short push on the button pointing away from screen (lower half) **SBP ▼**

**Long Button Press DOWN:** hold the button in its lower half for more than one second or until a reaction appears on the display **LBP ▼**

Both buttons pressed together will turn the unit off at any time during operation. This symbol will be used throughout this document to represent this button press **LBP ▼** **LBP ▲**

## POWER

- To power the unit ON, use **SBP ▲**
- To power the unit off from main menu options, **LBP ▲** or **LBP ▼** once the Shutdown option is highlighted.

## MAIN MENU

Use **SBP ▲** or **SBP ▼** to navigate through the menu options. When desired option is highlighted, use **LBP ▲** or **LBP ▼** to make a selection.

## SETUP

The Setup menu contains several different parameters to configure the KT-10's operation. The options in this menu are: **Mode**, **Core Diameter**, **Measure Units**, **Date/Time**, **Accessories**, **Advanced**, and **Main Menu**. To navigate to the desired parameter use the **SBP ▼** or **SBP ▲**, then when the parameter is highlighted use **LBP ▼** or **LBP ▲** to activate it.

### IMPORTANT!

Please make sure to set the Date & Time on the meter before saving any measurements.

## PIN

The KT-10 is equipped with **PINs** for rough surface measurements.

## MEASURE

**Note:** The duration for the measurement sequence is 7 seconds long. Soon after the measurement is initiated, a new screen with 4 dashes and a progress bar will appear. It takes 7 seconds for the progress bar to complete. It is important that you do not wait for the bar to build up in between each of the 3 steps or else you will be presented with “Error” on the screen.

### 1. Select Measure Mode & Core Diameter Size

- A. From the Main menu, select the Setup options.
- B. Select Core diameter then choose the core diameter size. Select “None” if you wish to measure rock samples.
- C. Select “Back to menu” to go back to main menu

### 2. Select Measure

#### Step 1:



With the KT-10 in free air, **SBP ▲** to start the measurement process. After about 1 second you will hear a short sound indicating the free air measurements are complete.

#### Step 2:



Immediately place the KT-10 on the sample's surface then **SBP ▲**. When the reading on the sample is complete you will hear a sound; this sound is different then the one heard during the free air measurements.

#### Step 3:



Then immediately position the KT-10 in free air once again for the final free air measurements. Wait for the final sound, which will be the same as the first tone heard in Step 1. This sound will indicate the final free air measurements are complete and the reading(s) will be displayed on screen.

### 3. Storing Record

**LPB ▲** will quickly store a reading **LBP ▼** will allow user to store with options



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## MEASURE – Scanner Mode

### 1. Set Measure Mode & Core Diameter Size

- A. From the Main menu, select the Setup option.
- B. Select Core diameter then choose a core diameter size. Select “None” if you are measuring rock samples.
- C. Select “Back to menu” to return to the main menu

### 2. Select Scanner

Before proceeding with the measurements, ensure that the meter is position in a free air space void of all metallic objects.

There are two steps involved in the **Scanner** process. The first step is a **free air measurement**; the second is the **sample measurement** which will last for 45 seconds unless stopped with the use of **SBP ▼**.

#### Step 1:



With the KT-10 in free air, use **SBP ▲** to start the **Scanner** process. Soon after you will hear a short sound indicating the free air measurements are complete and that the meter can be positioned on the sample.

#### Step 2:



Begin to move the KT-10 along the surface you wish to scan. The meter's loud speaker will indicate the relative intensity of the reading by the pitch of the audio.

- Place a marker in the data set with **SBP ▲**.
- Use **SBP ▼** at any time during the scanning process to end scanning.

### 3. Storing a record

**LPB ▲** will quickly store a reading

**LBP ▼** will allow user to store with options



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