

KAPPAMETER KM-7 MAGNETIC SUSCEPTIBILITY METER

The pocket susceptibility meter KM-7 is designed for quick measurements of magnetic properties of rocks in situ. The use of KM-7 is especially advantageous for selecting suitable specimens for further precise laboratory studies of magnetic properties.

APPLICATIONS:

Mineral Exploration
Measuring on Drill Cores
Archeology

REAL SIZE
PICTURE



FEATURES:

High Resolution
Excellent Accuracy
Wide Measuring Range
Internal Non-volatile Data Memory
Single & Scan Mode of Operation
Measuring Pin
GPS Connection via Bluetooth

SPECIFICATIONS:

Sensitivity:	1 x 10 ⁻⁶ SI units	Interface:	USB 2.0, Bluetooth
	1 x 10 ⁻⁵ SI units in scan mode	Power Consumption:	8 mA
Measuring Ranges:	±999 x 10 ⁻³ SI units with automatically switched accuracy		(without Bluetooth or backlight)
Operating Frequency:	10 kHz	Battery:	2 x AAA
Display:	4 rows, backlight	Operating Temperature:	-20°C to +60°C
Data Memory:	999 readings (without GPS data)	Dimensions:	165 x 68 x 28 mm
Controls:	4 switches: Escape, Enter, Up, Down	Weight:	250 g including batteries
		Accessories:	Leather Case, Instruction Manual, USB cable, Disk with comm. program

**DESCRIPTION OF OPERATION:**

Kappameter KM-7 allows measuring in three modes:

SINGLE MODE - serves for taking individual readings. The measurement is carried out in two steps. By pressing the switch ENT for the first time, the instrument is cleared (zeroed); by pressing it for the second time, the susceptibility of the specimen is measured. To be cleared properly, the instrument must be removed from the measured rock and from other magnetic or conductive objects to a distance of at least 30 cm. The measured value may be stored in the memory.

Measurement can be made with a flat head of the KM-7 (suitable for smooth rock surface) or with a pin, which gives more reliable results on rough surfaces. KM-7 can be calibrated for various diameters when measuring on drill cores.

Using Bluetooth connection to GPS, coordinates can be added to measured values and together stored in the memory.

SCAN MODE - provides fast information on the distribution of susceptibility over a particular rock object. In this mode, the measurements are repeated automatically about three times a second. Each measured value is displayed but not stored in the memory.

REMOTE MODE - allows measured data to be directly transferred to PC using bluetooth or USB connection. In this mode the measurements are repeated automatically about five times a second. Each value is displayed on the computer screen (a list of values as well as a graph) and stored in the internal database.

The KMdata communication software

The program on the disk supplied serves for data transfer from the KM-7 to PC. The transferred data are stored to an internal program database where they can be accessed and sorted. Any collection of data measured can be exported as a text file and used by other programs for further data processing.

No.	Date	Time	Data	Adaptor
1	11.10.2011	15:23:25	4.547	PIN
2	11.10.2011	15:23:44	16.752	PIN
3	11.10.2011	15:23:52	6.001	PIN
4	11.10.2011	15:24:00	14.525	PIN
5	11.10.2011	15:24:06	12.279	PIN
6	11.10.2011	15:24:11	30.431	PIN
7	11.10.2011	15:24:22	18.976	PIN
8	11.10.2011	15:24:47	6.295	FLAT
9	11.10.2011	15:24:54	4.997	FLAT
10	11.10.2011	15:25:00	7.224	FLAT
11	11.10.2011	15:25:06	7.387	FLAT
12	11.10.2011	15:25:13	6.674	FLAT
13	11.10.2011	15:25:20	1.525	FLAT
14	11.10.2011	15:25:25	5.652	FLAT
15	11.10.2011	15:25:32	5.126	FLAT

The KMdata software allows direct acquisition of measurements from KM-7 in the Remote Mode. The delivered program has also capability to upload a new firmware to the KM-7 device.