

# MULTI KAPPA



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## **Magnetic susceptibility meter for multi-layer survey**

**In-situ assessment of magnetic properties of para-, dia- and ferromagnetic materials**

**Manual or continuous measuring modes with GPS positioning and map preview**

**Sensitivity  $1 \times 10^{-6}$  SI units with fast response**

**Temperature drift compensation**

**Lightweight and rugged design**

**Rechargeable Li-Ion cells (one charging for 3-4 working days) or 6 AA cells**

**Easy operation with graphical screen and large data memory**

**Data download via USB port or flash disk**

**Bluetooth communication with probe and GPS**

## **Applications:**

geological survey, archaeology, agriculture and forestry, raw material prospecting, mineralogy, sedimentology, detection of metallic objects, UXO survey



**Multi Kappa** instrument serves for fast field survey allowing both spot measurement and mapping by means of several probes. Together with GF Instruments traditional pocket magnetic susceptibility meters cover wide range of demands for accurate susceptibility measurement on ground surface, outcrops and samples of rock and soil. Original efficient way of temperature stabilizing allows profiling without frequent zero setting. Fast sampling rate with GPS positioning can be appreciated at moving applications. Exchangeable coils with various diameters make choice of appropriate depth range and horizontal resolution possible.

## Technical Specifications

### Probes:

- Measuring range:  $\pm 0.000$  to  $999 \times 10^{-3}$  SI units
- Sensitivity:  $10^{-6}$  SI units for spot measurements  
 $10^{-5}$  -  $10^{-4}$  SI units for continuous modes
- Sampling rate: max. 5 Hz
- Operating temperature: -10 °C to +50 °C

Probe	Axial depth range (90 % of signal)	Frequency	Coil diameter	Weight
MK125	12 cm	3.60 kHz	125 mm	0.65 kg
MK250	25 cm	2.26 kHz	250 mm	1.20 kg
MK500	50 cm	1.09 kHz	500 mm	2.10 kg

### Control Unit:

- Measuring modes: Manual (lines with stations)  
Continuous (lines with length markers)  
GPS manual  
GPS continuous  
Search
- Map preview: max. 15000 positions
- Integrated Bluetooth wireless technology
- Data download via USB port or flash disk
- Sampling time: 0.2 – 5 s
- GPS receiver support  
(wired or Bluetooth, latitude/longitude or UTM export)
- 128 MB data flash memory  
(up to 64 files, max. 4.8 millions measured points)
- Graphical LCD display 320 x 240, white backlight
- Power Supply: Internal exchangeable rechargeable Li-Ion battery pack  
(24 -36 continuous working hours)  
Internal exchangeable battery holder  
(for 6 x AA single use or rechargeable NiCd / NiMH)
- Dimensions & Weight: 270 x 90 (145) x 60 mm, 0.7 kg

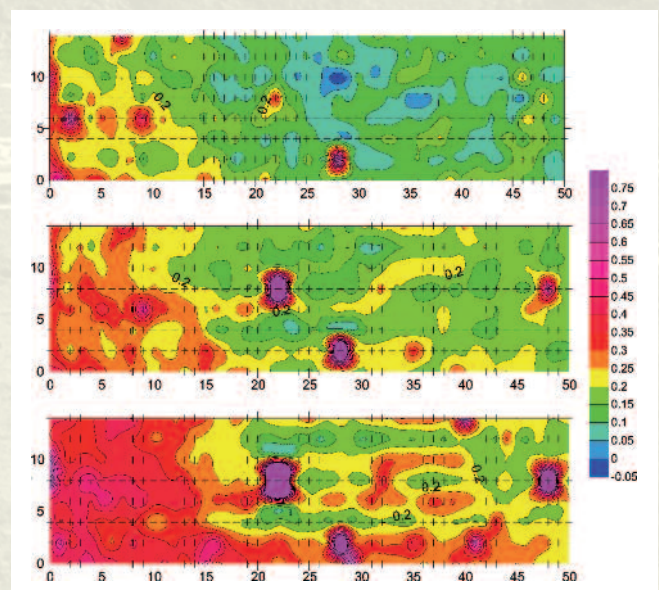


### Standard Accessories:

- MK125, MK250, MK500 probes
- Transport aluminum case: 58 x 17 x 113 cm
- Probe holder with Bluetooth adapter
- AC - adapter for 100-240 V AC, 50-60 Hz
- Cable for 12 V car socket supply
- Internal battery holder for 6 x AA cells
- Carrying belt
- Cable for data download to PC and flash disk
- Cable for FW upgrade or special applications
- CD with software
- Operating manual

### Optional Accessories:

- Mapping software (Surfer)



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