

SM-100 PORTABLE MAGNETIC SUSCEPTIBILITY METER

adjustable field intensity and operating frequency in pick-up coil for measurement of one inch cores or fragments

GENERAL

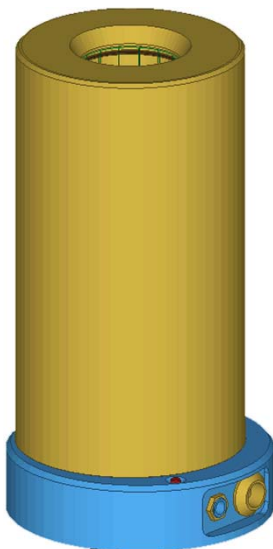
The SM-100 Portable Magnetic Susceptibility Meter is designed for laboratory or field use to measure susceptibility of cylindrical samples 25,4x22 mm. Small sample fragments can be measured in the pot with inner volume 25 cm³. The SM-100 design reflects the latest in electronic advances and offers unrivalled features:

- **adjustable field intensity and operating frequency in several steps by user**
- **built-in scale with resolution 0.01g for measuring the weight of the sample and determining mass susceptibility of the sample.**
- **simple operation without any control knobs.**

Operation of the SM-100 is straightforward. Typically a small sample in a plastic pot is placed into the measuring coil for analysis which is carried out under instructions from a personal computer. The SM-100 is connected to a PC with a cable to USB port. Results are available in several seconds and are conventionally stored and displayed on this PC. Flexibility and user friendliness have been the key criteria in the design of the SM-100 software. Calibration samples are supplied. Checking the calibration takes only a few minutes.

WARRANTY

We provide standard support and warranty repair service for the instrument sent back from any location worldwide.



SM-100 drawing

FEATURES

- **HIGH SENSITIVITY 1xE-6 SI UNITS**
- **MEASUREMENT NOT SENSITIVE TO SPECIMEN SHAPE**
- **ADJUSTABLE FIELD INTENSITY AND OPERATING FREQUENCY**
- **MEASURING OF BOTH VOLUME AND MASS SUSCEPTIBILITY OF THE SAMPLE**
- **BATTERY OPERATED**
- **SINGLE INTEGRATED HOUSING CONNECTED TO PC**
- **BUILT-IN SCALE FOR MEASURING WEIGHT OF THE SAMPLE**

TO ORDER

SM-100 PORTABLE MAGNETIC SUSCEPTIBILITY METER comprising of:

- 1 SM-100 Unit
- 1 Set Specimen pot
- 1 SM-100 Software Package
- 1 Calibration Standard
- 1 Set Interconnecting Cables
- 1 Instruction Manual
- 1 12V accumulator charger
- 1 12V rechargeable accumulator

SPECIFICATION

SENSITIVITY	1 x E-6 SI units
OPERATING FREQUENCY	63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
FIELD INTENSITY	10, 20, 40, 80, 160 or 320 A/m
FIELD HOMOGENEITY	< 1 %
INNER DIAMETER OF COIL	40 mm
CONTROLS	no push buttons
SCALE	built-in scale, resolution 0.01g
MEASUREMENT TIME	< 8 s
PC INTERFACE	USB
OPERATING TEMPERATURE	-20°C to 50°C
BATTERY	12V rechargeable accumulator
DIMENSIONS	φ 90 x 200 mm

Specifications are a subject to be changed in connection with the instrument's improvement.

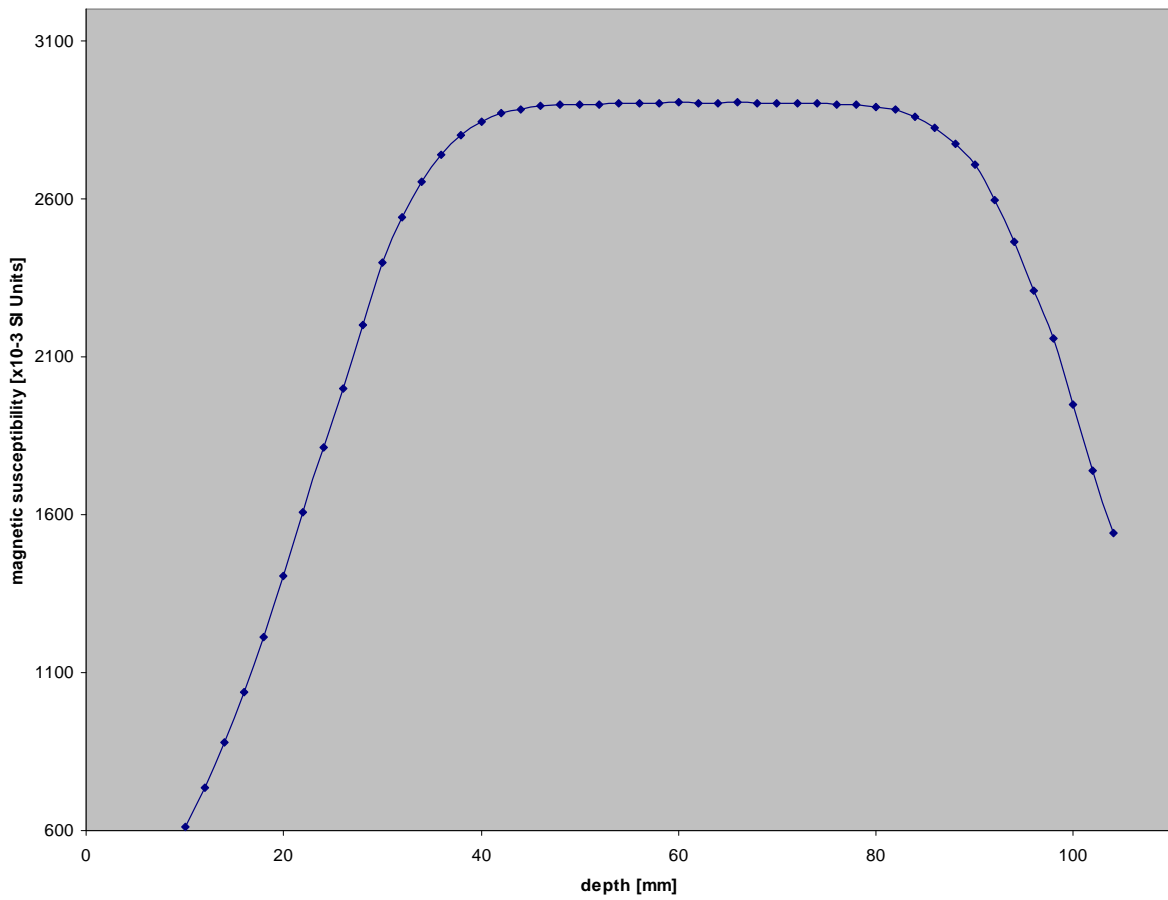
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FIELD HOMOGENITY

SM100 - field homogeneity test at 1kHz, 160 A/m



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