

SM-100 Magnetic Susceptibility System

Measurement on 1" Cores/Rock Chips

Features: High sensitivity, 1×10^{-6} SI
Measurement not sensitive to specimen shape or size
PC Controlled, battery operated



GENERAL

The SM-100 Portable Magnetic Susceptibility Meter is designed for laboratory or field use to measure bulk susceptibility of standard 24.5mm cores. Small sample fragments can be measured in the cylinder with inner volume 25cm^3 .

- Single integrated housing incorporating the measurement zone, the electronics and power supply connected to PC
- Simple operation without any control knobs.

Operation of the SM-100 is straightforward. Typically a small sample in a plastic vessel 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 serial RS232 port. Results are available in several seconds and are stored and displayed on the 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.

SPECIFICATIONS:

Sensitivity	1×10^{-6} SI units
Operating Frequency	8 kHz
Field Intensity	160 A/m
Field Homogeneity	< 1%
Inner Coil Diameter	40mm
Measurement Time	< 5s
PC Interface	RS232C
Operating Temperature	-20°C to 50°C
Power Supply	12V, 110/220V
Dimensions	90 x 200 mm (diameter x height)

Standard Components: SM-100 Unit, set of specimen vessels, SM100 software package, calibration standard, set interconnecting cables, manual, power unit.