

Vibrating Sample Magnetometer

Specification

Nominal Specification of the VSM System:

Sample temperature range (VTI)	1.6 325K
Range of the z-axis translation stage	100 mm
Vibration amplitude	Typically 2mm
Vibration frequency	Typically 20Hz
Maximum sample size	10 mm
Optimum sample size	5mm or smaller
Noise base (10 sec averaging)	1×10^{-6} emu
Dynamic range (standard)	108
Accuracy and reproducibility	0.5%
Noise level	2×10^{-6} emu/ $\sqrt{\text{Hz}}$ + $B \times 5 \times 10^{-7}$ emu / T $\sqrt{\text{Hz}}$