



Vibrating Sample Magnetometer (VSM)

- Excellent reproducibility
- 2-1,000K operation
- 5×10^{-7} emu sensitivity
- Suitable for liquids, powders or bulk samples



VSM Measurement Parameters

- VSM oscillation frequency (calibrated): 1-100 Hz
- VSM oscillation amplitude range of 0.1 mm - 5mm
- Sample size up to 6mm diameter

Sensitivity Parameters

- RMS sensitivity 5×10^{-7} emu
- High stability $\pm 0.05\%$ per day
- Excellent reproducibility

System Properties

- Fast and Easy to use with oven/cryostat always installed on the measurement system and ready for use
- Air Cooled Magnet Power Supply
- Magnetic field ramp rate: Determined by magnet and power supply
- Temperature and magnetic field may be ramped during the measurement
- Longitudinal configuration
- RT System: Magnetic field is along horizontal axis, VSM vibration and moment detection are along vertical axis
- Cryogenic System: Magnetic field, VSM vibration and moment detection all along vertical axis, up to 14T magnetic field
- Cryogenic system properties

Geometry

- Sample holder suitable for bulk and thin film samples
- Sample holder configurable for parallel and vertical field measurements

