

Brüker EMX EPR

Specifications

Microwave Source	X-band microwave bridge (solid state), 200 mW leveled source output, 1 dB attenuation with 0.5 dB precision, 60 dB max attenuation. AFC stability of 10 ⁻⁶ , automatic AFC gain control, 4 mHz AFC dynamic range.
Magnet	Ten-inch magnet with 2.7 kW power supply, Hall field controller with 100 G - 10 kG operating range.
Field Accuracy	Field accuracy of better than 800 mG over the full operating range, sweep width setting in 100 mG steps with resolution of 2 mG.
Tuning	Automated tuning and cavity matching. Automatic calibration of phase and amplitude for any frequency in the specified frequency range, phase resolution of 0.1 degrees, first and second harmonic.
Cavity	High sensitivity cavity (ER 4119 HS) High temperature cavity Optical excitation cavity
High Pressure	High pressure accessory with dielectric resonator for ESR studies at pressures up to 4 GPa
Accessories	AquaX cell Electrochemistry – Volta lab Photochemistry – several lasers and fibre optics Complete liquid helium/liquid nitrogen low temperature accessory (3.8 - 300 K) High temperature unit for temperatures up to 1000 K X-ray Excitation ESR An array of miscellaneous items to design and conduct special experiments

Settings

Settings for experiments are sample specific. Staff will help you to find the right parameters for your experiments.

For more information, contact [Dr. R. Sammynaiken](#).