

MAG1000

Magnetic field test in accordance with IEC61000-4-8



The MAG 1000 is a stand-alone solution to be used for EMC Tests requiring AC Magnetic Fields. Power frequency magnetic fields are generated by AC current flowing in conductors. The normal 50/60Hz mains power cord is a good example, although currents with other frequencies may be present depending on the application. Magnetic fields may interfere with equipment operating in close proximity. Typical EUTs are monitors of all kinds. The MAG 1000 has a 1m x 1m square, 90 turn antenna. An internal power supply eliminates the need for an external power supply to the generator and a simple interface allows test parameters to be set easily. Magnetic field strength is defined at the centre of the coil with $\pm 3\text{dB}$ variation. Magnetic field is

orthogonal to the coil plane. Coil dimensions define the maximum EUT size as being 0.6m x 0.6m x 0.5m. The MAG 1000 can be used for both vertical and horizontal plane testing by simply rotating the coil antenna in its mounting on the included stand. The MAG 1000 can be operated in both short duration tests and continuous testing which makes it an ideal standalone test system for IEC 61000-4-8 and others.

Specification

Input Voltage	100 - 240V
Continuous Field Strength	1 - 120 A/m
Continuous Test Time	1min – 8hr
Short Duration Field Strength	100 - 1100A/m
Short Duration Test Time	1s - 3s
Selectable Frequency	50Hz & 60Hz
Maximum EUT Size	0.6m x 0.6m x 0.5m
Generator Dimensions	550mm x 450mm x 143mm
Input Connection	10A IEC
Stand & Antenna Weight	46kg

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