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Test & Measurement

- sales
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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

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MAG 100

Power Frequency Magnetic Field Test Equipment



MAG 100 current transformer, 1mx1m antenna mounted on support stand (right) shown with the power source (left)

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 dependant on the application. Magnetic fields, may interfere with equipment operated in close proximity. Typical EUTs are monitors of all kinds.

ONE SOLUTION

for

- ☒ IEC 61000-4-8
- ☒ EN 61000-6-1
- ☒ EN 61000-6-2

all EN product standards and many other applications.



MAG 100 current transformer, 2mx2.6m antenna mounted on two support stands

FEATURES

- up to 110A/m field strength
- different coil sizes available
- exactly as defined in IEC 1000-4-8
- sturdy construction
- horizontal and vertical testing possible
- Manufactured according ISO 9001

BENEFITS

- software control (when used together with Haefely EMC power sources)
- single turn coils

MAG 100

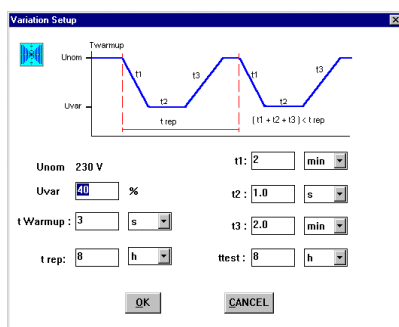
MAG 100 has a 1m x 1m square, single turn antenna. A current of 120A is needed to feed the coil to produce a field of 100A/m. MAG 100 includes a current transformer capable of delivering 120A from a low current source.

Magnetic field strength is defined at the center of a 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 100 can be used for both vertical and horizontal plane testing, by simply rotating the coil antenna in its mounting on the (optional) stand. The MAG 100 can only be used for continuous mode testing.

AUTOMATIC TESTING

In conjunction with other Haefely EMC Test products, magnetic field testing can be fully or partially automated. PLINE 1610 used together with the MAG 100 can provide semi automatic testing from the instrument front panel. A special menu MAG100 is included in the PLINE 1610 software. Voltages can be programmed which correspond to a magnetic field strength at the center of the coil antenna.



WinFEAT&R software used to control the PLINE 1610, means that magnetic field testing can be automated with other EMC tests.

LARGE EUTS

To satisfy the needs of manufacturers with test objects larger than 0.6m x 0.6m, a coil antenna is available with dimensions 2m x 2.6m.



The increased antenna size means that objects up of 1.2m x 1.6m can be tested. However, because the coil antenna is still used with the MAG 100 current transformer, maximum current in the coil is 120A. This results in a magnetic field of only 36A/m at coil center.

The larger coil antenna requires two stands to support it. It can still be used for both horizontal and vertical plane testing.

TECHNICAL SPECIFICATION

Input Voltage range	0 - 230V	Maximum EUT size	0.6 x 0.6 x 0.5m
Output Voltage range	0 - 1.2V	max field 1m x 1m coil	110 A/m
Output Current range 1	0 - 13A	max field 2m x 2.6m coil	36 A/m
Output Current range 2	0 - 130A	Input connection	10A IEC
		Weight	approx. 17 kg

ORDERING INFORMATION

MAG100 set with 1m x 1m coil antenna	249004
Support stand for coil antenna	249003
Additional coil antenna 2m x 2.6m	249030
WinFEAT&R software	249970

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