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## Test & Measurement

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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.

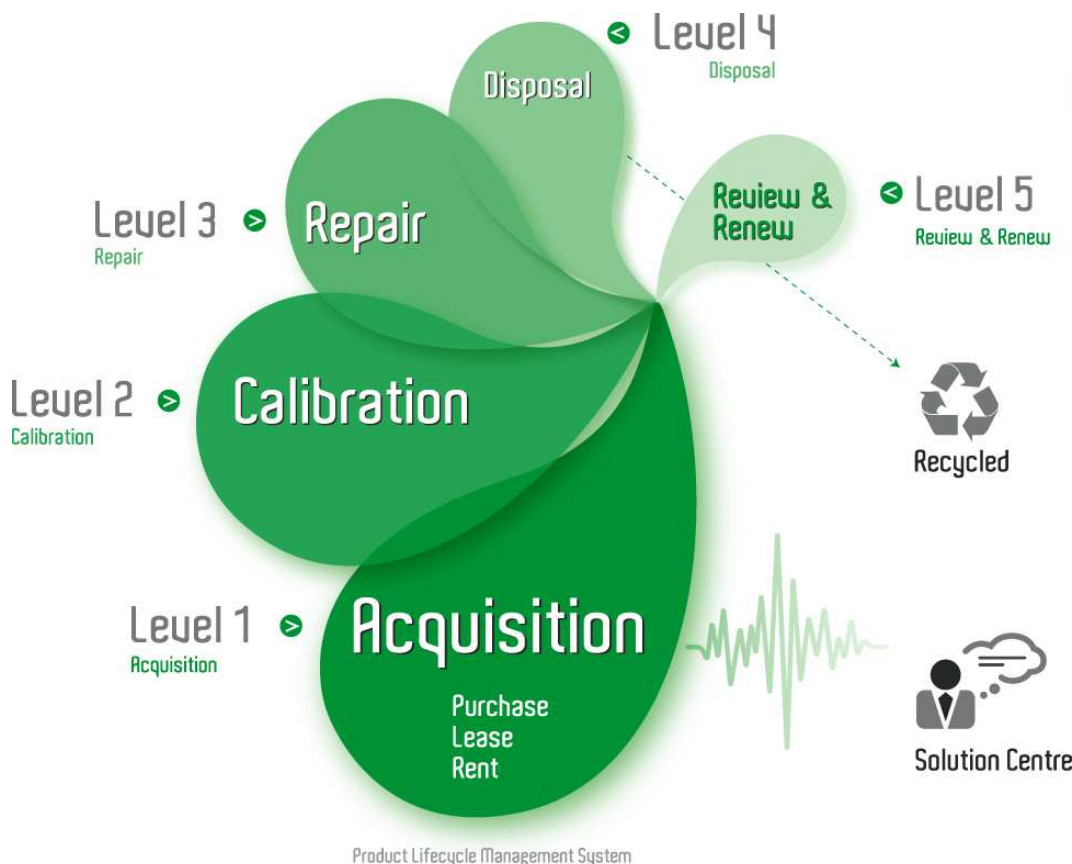
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# MFS 100

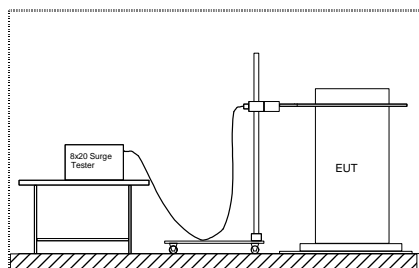
## Power Frequency and pulse magnetic field test system

The MFS 100 test system can be used to test power frequency magnetic fields according to IEC/EN 61000-4-8 and pulse magnetic field according to IEC/EN 61000-4-9.

The MFS 100 is an accessory to either the PSURGE 4010, PSURGE 8000 with PIM 100 surge generators, or the ECOMPACT 4. It enables magnetic field testing up to 1200 A/m.



MFS 100 1mx1m antenna mounted on support stand (above) shown with the MFS 100 control unit



EUT setup

### ■ Features

- ☑ Up to **1200A/m** field strength for **pulse magnetic field**.
- ☑ Up to **100A/m** field strength for **frequency magnetic field**.
- ☑ **Standard coil** designed for major application as defined in the IEC document.
- ☑ Sturdy construction.
- ☑ Horizontal and vertical testing possible.
- ☑ Supplied to **ISO 9001**.

### ■ Benefits

Compact design to fulfill both the IEC/EN 61000-4-8 and IEC 61000 4-9 standards.

Single turn coil.

Only one support stand is needed for all magnetic field tests in accordance with IEC 61000-4-8/9.

### ■ Applications

- ☑ IEC 61000-4-8
- ☑ EN 61000-4-8
- ☑ IEC 61000-4-9
- ☑ EN 61000-4-9

## ■ Description

MFS 100 has a 1m x 1m square, single turn antenna.

A current of 1150A is needed to feed the coil to produce a field of 1000A/m.



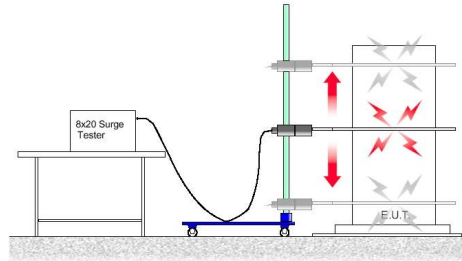
Magnetic field strength is defined at the center of a coil with  $\pm 3\text{dB}$  variation.

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 MFS100 can be used for both vertical and horizontal plane testing, by simply rotating the coil antenna in its mounting on the stand.

The MFS100 is designed for EUTs up to 0.5m high. To test larger EUTs, the antenna coil can be adjusted in height on the mounting stand.

The MFS100 construction makes it easy to adjust the antenna height.



The MFS 100 antenna can also be rotated through 90° and placed alongside large EUTs to test all four faces of the test object.

## ■ Technical Specifications

Power	230V 50/60Hz 460VA	Maximum EUT size	0.6 x 0.6 x 0.5m
50/60Hz Coil Current	0 to 16A at "MIN" Range 0 to 124A at "MAX" Range	Coil Factor	1.15
50/60Hz Magnetic Field	0 to 14A/m at "MIN" Range 0 to 108 A/m at "Max" Range	8/20us Magnetic Field duration	16us $\pm 30\%$
8/20us Coil Current	0 to 1200A		
8/20us Magnetic Field	0 to 1043 A/m		
8/20us Magnetic Field Rise time	6.4us $\pm 30\%$		

### Weights and Dimensions (W x H x D, net weight)

MFS 100	23 x 25 x 40 cm , 19kg
Coil	100 x 100 cm , 12kg

### Ordering Information

MFS 100	Part number: 249102
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