

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 AXOS 5, AXOS 8 or PSURGE 8000 with PIM 100 surge generators. It enables magnetic field testing up to 1200 A/m.

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.



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

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

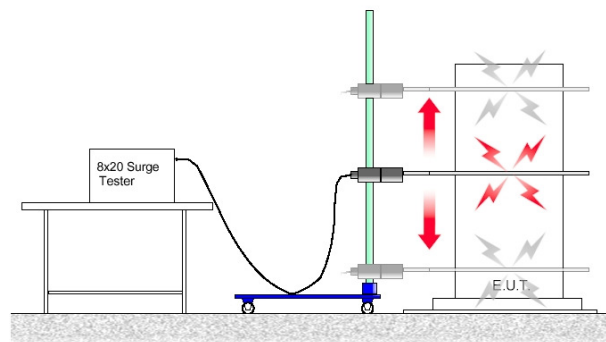
Compact Design - to fulfill both the IEC/EN 610004-8* and IEC 61000 4-9** standards

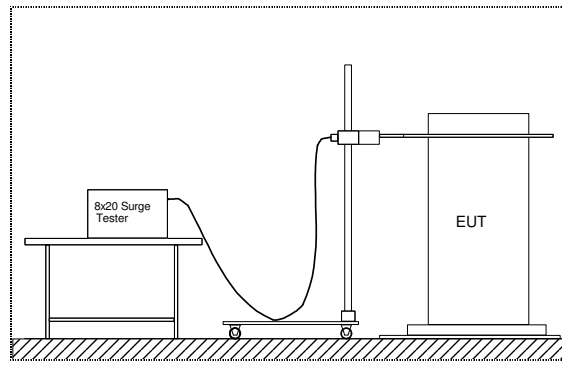
Single Turn Coil

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**





EUT setup

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	Coil Factor	1.15
	0 to 124A at "MAX" Range		
50/60Hz Magnetic Field	0 to 14A/m at "MIN" Range	8/20us Magnetic Field duration	16us ±30%
	0 to 108 A/m at "Max" Range		
8/20us Coil Current	0 to 1200A		
8/20us Magnetic Field	0 to 1043 A/m		

Weight and Dimensions

MFS 100	10 kg (net weight)	45 x 20 x 50 cm (w x h x d)
Coil	12kg (net weight)	100 x 100 cm

*Test levels for short duration: 1 s to 3 s are not being supported
 **An external Surge Combination Wave generator is being required

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