



Power Frequency Magnetic Field Simulator **MFS 400**

- IEC/EN 61000-4-8
- GB/T 17626.8

Features

- > 5.7-inch color touch screen front panel operation
- > Overvoltage, overcurrent and overtemperature protection
- > Test sequence function is controlled by Corelab software.
- > RJ45 Ethernet port for remote PC control
- > Test report printing

Introduction

The MFS 400 Power Frequency Magnetic Field Simulator is a highly reliable test instrument specially designed for power frequency magnetic field immunity tests on electrical and electronic products. It complies with IEC/EN 61000-4-8 and GB/T 17626.8 standards.

It can simulate magnetic field environments of residential areas, commercial zones, industrial and mining enterprises, power plants, as well as medium and high-voltage substations.

Application Areas



Technical Parameters

Magnetic Field Strength	TCXS 111 Single-turn 1 m* 1 m square magnetic field coil; Continuous: 1 A/m ~ 100 A/m; Short-term (1s ~ 10 s): 100 A/m ~ 400 A/m
Magnetic Field Output Accuracy	Error: less than 1 dB of the set output value
Current Waveform	50 Hz / 60 Hz sine wave
Total Current Harmonic Distortion (THDc)	< 5%
Waveform Interval Time	1 s ~ 9,999 s
Test Duration	1 s ~ 28,800 s
Trigger Mode	Manual, Auto, External Trigger
Magnetic Coil Dimensions	1 m* 1 m or customized
Magnetic Coil Shape	Rectangular or customized
Test Mode	Support test sequence function

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 110 V/220 V(±10%), 50/60 Hz
Fuse	6 A
Max. Power Consumption	100 W
User Storage Space	Unlimited (PC)
Communication Mode	Ethernet Lan (RJ45 interface)
Detection Output Mode	1 m coaxial cable
Dimension	4U rack, 450 mm * 190 mm * 620 mm
Weight	Approx. 15.5 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

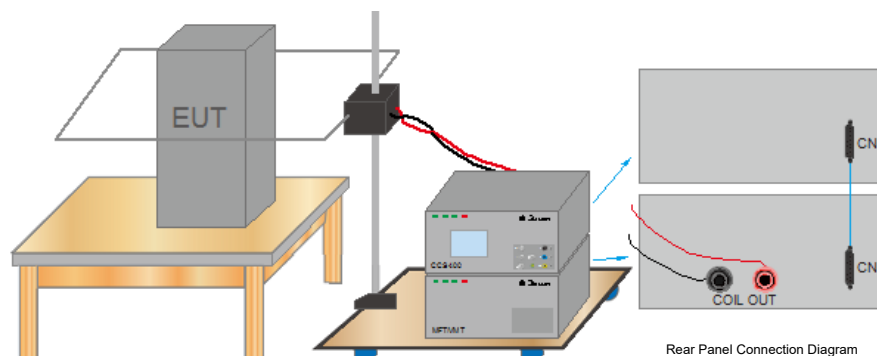
Standard Accessories

Power Cord, EUT Power Cable, User Manual, Network Cable, 5m Grounding Wire

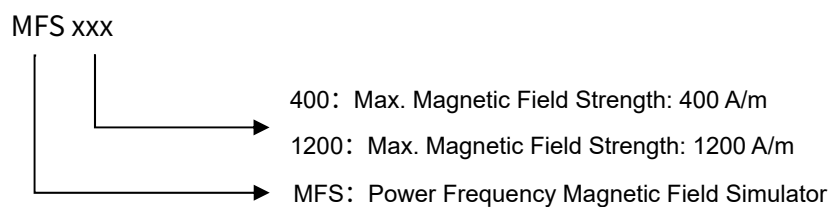
Optional Accessories

1	MFT 400	Power frequency magnetic field module, for use with MFS 400 Dimensions: 6U rack, 450 (W) * 280 (H) * 620 (D)mm Weight: 70 kg	
2	TCXS 111	1 m*1 m Coil	
3	Control Software	Model: Corelab > Support Windows 7/8/10/11; > Support Ethernet Interface; > Support sequence test, easy to operate, generate and export test report.	

Test Connection Diagram



Naming Rules



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