

Variable-Frequency Magnetic Field Immunity Simulator

MFS AP Series



- EN/IEC 61000-4-8
- EN 50121-4
- GB/T 17626.8
- GB/T 17215
- GB/T 17883

Features

- > 5.7-inch color TFT touchscreen front panel operation
- > Support overload protection for overvoltage and overcurrent
- > Support overtemperature protection
- > Ethernet RJ45 interfaces for PC remote control and test reports printing

Introduction

The MFS AP Series Variable-Frequency Magnetic Field Immunity Simulator is designed to perform immunity tests for electrical and electronic products in accordance with EN/IEC 61000-4-8 and EN 50121-4.

It simulates magnetic field conditions in residential areas, commercial areas, industrial sites, power plants, and medium- and high-voltage substations.

Application Areas



Technical Parameters

Max. Peak Output	$\pm 60 \text{ V}$, $\pm 30 \text{ A}$	
Magnetic Field Strength	TYX 130 (0 ~ 300 A/m, 0 ~ 240 Hz) TYX 150 (0 ~ 500 A/m, 0 ~ 65 Hz) TYX 180 (0 ~ 800 A/m, 0 ~ 65 Hz) TFX 180 (0 ~ 800 A/m, 0 ~ 65 Hz) TYX 1100 (0 ~ 1,000 A/m, 0 ~ 50 Hz)	
Error	<10%	
Magnetic Field Frequency	adjustable, 400Hz available on request	
External Sync Phase	0 ~ 359° setting resolution: 1°	
Total Harmonic Distortion	<5%	
Waveform Interval Time	1 ~ 9,999 s	
Test Duration	1 ~ 28,800 s	
Coil	Magnetic field Coil	Square, 1 m*1 m
	Helmholtz Coil	Circular, 1 m

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 110V/220V, $\pm 10\%$, 50/60Hz
Control Fuse	6 A
Max. Power Consumption	100 VA
External Control Mode	25-pin parallel cable
Working Status Indication	Front panel LED indicators and LCD display
Grounding Method	Green-yellow grounding wire
External Synchronization Input	1 Hz ~ 1kHz Voltage between terminals of same-polarity and opposite-polarity: 20 ~ 500 V Voltage between terminals and chassis: 0 ~ 500 V
Dimension	19-inch 6 U rack, 450 mm (W)*280 mm (H)*620 mm (D) 4 U rack, 450 mm (W)*190 mm (H)*620 mm (D)
Weight	Approx. 28 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% RH ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

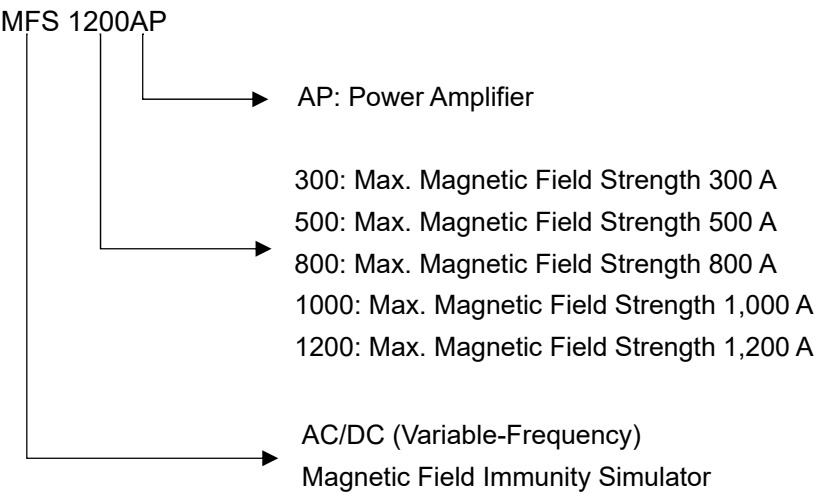
Standard Accessories

MFS Main Unit, Magnetic Field Coil, Power Cable, EUT Power Cable, Network Cable, Power Cord, 5 m Grounding Wire, User Manual

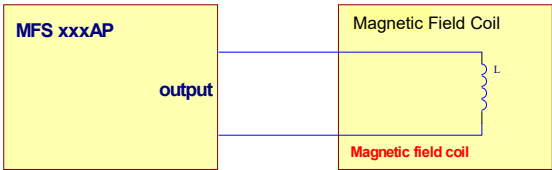
Optional Accessories

1	Magnetic Field Coil	TYX 130 (300 A/m) TYX 150 (500 A/m) TYX 180 (800 A/m) TFX 180 (0-800 A/m) TYX 1100 (1,000 A/m)
2	Helmholtz Coil	TYXH 130 (300 A/m) TYXH 150 (500 A/m) TYXH 180 (800 A/m) TYXH 1100 (1,000 A/m)

Naming Rules



Test Connection



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