

DC Magnetic Field Change Rate Simulator

MFS 1600DG

■ HJB 34A:2007

Features

- > 5.7-inch color touch screen control, simple and intuitive interface operation
- > The maximum magnetic field strength reaches 1600 A/m
- > Compliant with HJB 34A:2007 standard
- > Good stability of output magnetic field strength

Introduction

The MFS 1600DG DC magnetic field change rate simulator is developed and designed based on HJB 34A:2007, mainly used for magnetic field immunity testing of ships. It is a product based on the company's new generation control platform and designed using programmable controller technology. Greatly simplifies system integration and improves system reliability. The unique color touch screen interface has excellent human-machine dialogue function, and the operation process is convenient and simple. The system consists of MFS 1600DG DC magnetic field rate simulator and TCXS1166 magnetic field coil.

Application Areas




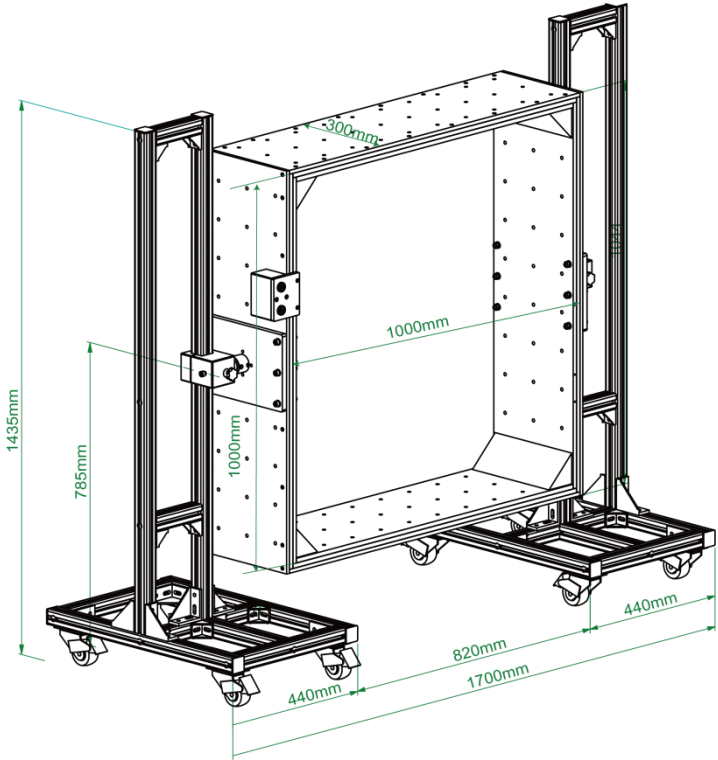
Technical Parameters

MFS 1600DG DC Magnetic Field Change Rate Simulator	
Magnetic Field Intensity	400 A/m ~ 1600 A/m, $\pm 10\%$
Magnetic Field Change Rate (Increase Rate/Decrease Rate)	1600 A/m/s ~ 16000 A/m/s continuously adjustable
Maximum Output Voltage	60 V DC
Maximum Output Current	30 A DC
Test Duration	1 s ~ 600 s
Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V $\pm 10\%$, 50/60 Hz
Maximum Power Consumption	2000 W
Communication Methods	Ethernet LAN, RJ45
Working Status Indication	Front panel LED indication, LCD display
Grounding Connection Method	Use a 4 mm banana head for grounding
Output Interface	4 mm banana socket
Dimension	Host 19 inches/8U 450 mm (W) * 380 mm (H) * 620 mm (D)
Weight	Approx. 46 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45%~75%, RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa
TCXS1166 Magnetic Field Coil	
Shape of Magnetic Field Coil	Rectangle
Coil Testing Direction	90°/180°
Number of Turns of Magnetic Field Coil	66 turns
DC Resistance of Magnetic Field Coil	$\leq 1.2 \Omega$
Coil Factor	59.4
Coil Inductance	$\leq 11 \text{ mH @ } 1 \text{ kHz}$
Input Interface	4 mm banana socket
Dimension	1000 mm(W)*1000 mm(D)
Weight	Approx. 65 kg

Standard Accessories

Power cord, Test Wire, Grounding Wire, User Manual, Inspection Report, Product Warranty Certificate

Standard Coil	1	Magnetic Field Coil	Model:TCXS1166 Equipped with DC magnetic field change rate simulator MFS 1600DG, the maximum magnetic field strength can reach 1600 A/m	



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