

## Power frequency magnetic field simulator

## MFS 400 series



### As per

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

### Description

Power frequency magnetic field simulator MFS series is designed to conduct power frequency magnetic field immunity test of electrical and electronic products with high reliability as per IEC61000-4-8 and GB/T17626.8. It can offer accurate reference for EUT during power frequency magnetic field immunity test. It is mainly to simulate the magnetic environment in residence, commercial and industrial district, power station, and low and high substation.

### Features

- > 5.7 inch color touch screen front panel operation
- > Compatible to IEC 61000-4-8 test
- > Electronic magnetic relay protection if voltage and current is more than rated value
- > Temperature protection
- > Programmable setup for test voltage, polarity and phase sync angle by software to save time
- > Ethernet, RJ45 port for PC remote control, print and documentation

### Industries

- > Communication
- > Telecom
- > Medical
- > Broadcast
- > Railway
- > Technology
- > Military
- > Avionics
- > New energy
- > Electrical Vehicle

| General data   |   |
|--|---|
| Display screen   | 5.7 inch TFT touch screen                             |
| Working mains  | 110V/220V, $\pm 10\%$ , 50/60Hz(default AC 220V 50Hz) |
| Fuse   | 6A  |
| Max. Power consumption   | 100W  |
| Memory space   | Infinite (PC)   |
| Communication mode   | Ethernet LAN、RJ45                                     |
| Output mode  | Standard 1m coaxial cable                             |
| Size   | 19 inch/6U/4U   |
| Weight   | Approx. 35Kg+68Kg                                     |
| Temperature  | 15–35°C   |
| Humidity   | 45%–75%   |
| Air pressure   | 86kPa–106kPa  |
| Basic equipments   |   |
| MFS simulator, magnetic field coil, power cable, EUT supply cable, internet cable, power cord, ground wire 5 meters, factory test report, warranty report, user manual |   |

| Optional accessories  |  |
|---|--|
| 1. MFT 400  | PFMF regulating device                     |
| 2. TCXS/H series  | Magnetic field coil                        |
| TCXS 111  | 1m*1m coil                                 |
| TCXS 113  | 1m*1m coil                                 |
| TCXS335   | 3m*3m coil                                 |
| TCXH1110  | 1m*1m helmholtz coil                       |
| 3. VMT series   | Regulating device for voltage dip,         |
| VMT 2212SV  | 220V 10A with variation, magnetic field    |
| VMT 2212S   | 220V 10A without variation, magnetic field |
| PC control software EMSLab<br>With PC installed WIN XP and WIN7, it can be easily operated to make the measurement, based on the customized test program. It can identify any device with automatic configuration. It can easily generate test reports. |  |

| PFMF test as per IEC 61000-4-8 |   |
|--------------------------------|---|
| PFMF module                    |   |
| Standards                      | IEC/EN 61000-4-8、GB/T 17626.8   |
| Magnetic field strength        | TCXS111 single turn 1m*1m square coil: 1-100A/m continuous, 100-400A/m(1-10 short time)   |
| Magnetic field output accuracy | The error less than 1dB of setting the output value (Minimum magnetic field strength such as 1A/m shall be calibrated manually before test) |
| Current waveform               | 50Hz/60Hz sine wave   |
| Current deviation              | <5%   |
| Waveform interval              | 1-9999s   |
| Test duration                  | 1-28800s  |
| Trigger mode                   | Automatic, manual or external signal trigger  |
| Coil size                      | 1000*1000mm or other  |
| Coil shape                     | Rectangle or other  |
| Number of coil                 | Single turn / three-turn  |
| Output strength                | Programmable setup  |



## SUZHOU 3CTEST ELECTRONIC CO., LTD

### Headquarter

Unit 2, Anda Industrial park, Jinshan Rd, SND, Suzhou,  
215011, China  
Tel: +86-512-68413700/3800/3900  
Fax: +86-512-68079795  
http://www.3ctest.cn  
Email: info@3ctest.cn

### BEIJING OFFICE

Room D 206, D block, Keshi Building, No.28, Shangdixinxi  
Road, Haidian District, Beijing, China  
Tel: +86-010-82899984/82899948  
Fax: +86-010-82899943

### CHENGDU OFFICE

Room 1501, Unit 3, Ideal Centre, No.38 Tianyi Street, SND,  
6100085, Chengdu, China  
Tel: +86-028-85327800  
Fax: +86-028-85311400

### SHENZHEN OFFICE

Room 805, Huawei Building, Xili Chaguang Road, Nanshan  
District, Shenzhen, China.  
Tel: +86-755-86626625/86344313  
Fax: +86-755-26966255

### Xi'an Office

Add.: Room 2204, Visa Yinghai Building, Green land Central  
Plaza, Jinye Road, Crossig of Zhangbasan Road, High-tech  
district, Xi'an city, China.  
Tel: +86-029-68985077/68985700  
Fax: +86-029-68717677



### TAIWAN OFFICE

RICHTEC INSTRUMENTS CO., LTD  
6F-5, No.130, Ln.235, Baoqiao Rd, Xindian District, New  
Taipei City, 23145, Taiwan  
Tel: +886-2-89121185 Fax: +886-2-89121812  
Email: rich.tec@msa.hinet.net  
http://www.richtec.com.tw



### TESTEK Co.,LTD

Address: 601Ho, SungwoonKoa, 141 Hyeonam-ro,  
Suji-Gu, Yongin-Si, Gyeonggi-Do, 448-808  
Tel: 070-4099-2072/H.P : 010-6500-6648  
Email: woo@testek.co.kr  
http://www.testek.co.kr, www.3ctest.co.kr



### Quantel Pte Ltd

Address: 46 Lorong 17 Geylang #05-02  
Enterprise Industrial Building  
Singapore 388568  
Tel: +65 6745 3200  
Email: info@quantel-global.com  
https://www.quantel-global.com



### European Agency

Europe: AR Europe  
Yvonne McGlinchey  
ymcglinchey@ARWorld.US  
+353 61 504300  
Address: First Floor Ashling Building, National Technology  
Park, Limerick, Ireland