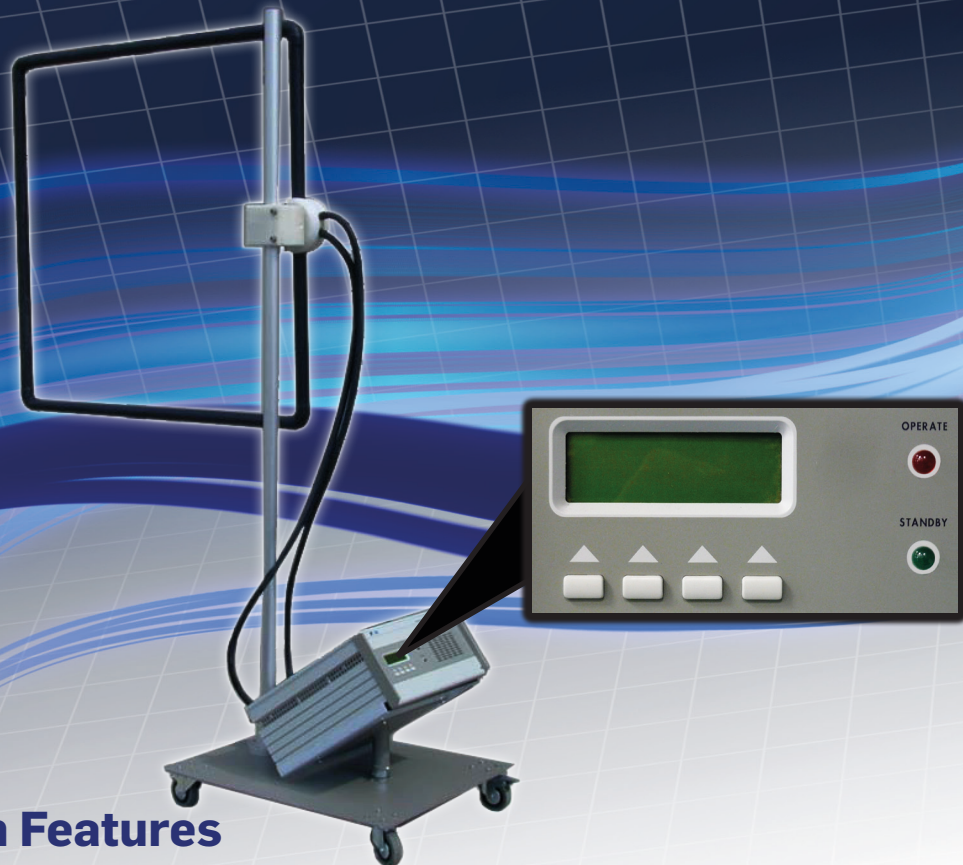


1008

Magnetic field generator system



Main Features

- Meets IEC/EN 61000-4-8 standard
- Suitable for 50/60 Hz power lines
- Continuous, Intermittent and Manual mode operation
- Up to 170 A (continuous) and 1200 A (5 sec.) output current
- LCD display, functional keys and Led indicators
- Automatic level adjustment
- Interlock key for additional safety
- User port to drive external switches
- Different loop antennas available (option)
- Swivel joint for immediate loop orientation change
- Generous screw terminals for safe connection
- Large wheeled baseplate for repeatable grounding and easy positioning

The 1008 is a high current generator for testing power frequency magnetic field immunity according to the IEC/EN 61000-4-8 standard.

The shape and size of the generated magnetic field are defined by the loop antenna in use; different loop antennas can be separately ordered as an option.

All the tests required by the basic standard IEC/EN 61000-4-8 (full immersion, proximity, continuous, intermittent) can be easily controlled (test mode, level, timing) either by the built-in software, via the soft keys on the front panel of the equipment, or by integrating control with the laboratory's own commercial or proprietary software.

The loop antenna is supported by a wheeled double mast with a pair of specially designed swivels so the loop can be turned quickly and easily in the direction most convenient to the test engineer.

Due to the weight of the heavy-duty components, the 1008 needs a robust and stable mechanical structure that provides repeatable grounding; the stand is combined with one of the two masts of the antenna and can be easily moved across the lab and on the test plane.

1008

Magnetic field generator system

SPECIFICATIONS

Current waveform	50/60 Hz, sine waveform	
I/O Interface	(protocol available for software developers)	
Display	RS-232; user port for hardware interlock key and external switch	
LED indicators	LCD, four 20-character lines	
Power supply	Operate, Standby	
Output voltage without load	230 Vac \pm 10 % - 50/60 Hz, 16 A max	
Continuous and Intermittent mode	4 Vac max	
Max output current	170 A (continuous); 1200 A (intermittent)	
Internal timer	1 to 200 h (continuous); 1 to 5 sec (intermittent)	
Timer resolution	1 min (continuous); 1 sec (intermittent)	
Manual mode		
Max output current	16 A or 160 A (selectable)	
Operating temperature	-10 °C to +40 °C	
Storage temperature	-40 °C to +50 °C	
Dimensions and weights (W x H x D)		
Generator	365 x 200 x 480 mm	28,0 kg
Cart (w 35deg support)	550 x 360 x 650 mm	23,6 kg
High current cable (x2)	Ø 19 x 1500mm	1,6 kg
Swivel joint	140 x 140 x 200 mm	2,4 kg
Loop double mast	Ø 40 x 1900 mm	1,7 kg
TOTAL	550 x 2000 x 650 mm	57,3 kg



Ordering information:

1008-01 - 1008 Magnetic field generator system
Includes: Power supply cable, 550 x 650 mm cart, 35deg generator support, 2 pcs. 1,5 m high current cables, swivel joint, loop double mast, RS232 cable, hardware interlock key, user's manual, standard calibration certificate.

Optional accessories:

- 1008-02** - Square loop 1 m
- 1008-03** - Square loop 1,5 m*
- 1008-04** - Square loop 2 m*
- 1008-05** - Rectangular loop 2,6 x 1 m*
- 1008-06** - Circular loop 1 m
- 1008-07** - Circular loop 40 cm

*Additional cart, joint and mast are provided for installation



Related products and services

Generators/Amplifiers/Receivers/Systems

- 3010: EMI Signal Generator 9 kHz to 1 GHz
- 3030: EMI Signal Generator 9 kHz to 3 GHz
- 6000N: Power Amplifier 9 kHz to 230 MHz / 10W
- 6630: USB RF Power Sensor 9 kHz to 3 GHz
- 7010/00: EMI Receiver 150 kHz to 1 GHz
- 7010/01: EMI Receiver 9 kHz to 1 GHz
- 7010/02: EMI Receiver 9 kHz to 30 MHz
- 7010/03: EMI Receiver 9 kHz to 3 GHz
- 9010: EMI Receiver 10 Hz to 30 MHz
- 9010F: EMI Receiver 10 Hz to 30 MHz
- 9010/03P: EMI Receiver 10 Hz to 300 MHz
- 9010/30P: EMI Receiver 10 Hz to 3 GHz
- 9010/60P: EMI Receiver 10 Hz to 6 GHz
- 9030: EMI Receiver 30 MHz to 3 GHz
- 9060: EMI Receiver 30 MHz to 6 GHz
- 9180: EMI Receiver 6 GHz to 18 GHz
- FR4003: Field Receiver 9 kHz to 30 MHz
- COND-IS: RF Conducted Immunity System
- RAD-IS: RF Radiated Immunity System
- AUT-IS: Automotive Immunity System

Antennas/Calibration services

- BC-01: Biconical Antenna 30 to 200 MHz
- BL-01: Biconical Log Periodic Antenna 30 MHz to 6 GHz
- DR-01: Double-ridged horn Antenna 6 to 18 GHz
- LP-02: Log Periodic Antenna 200 MHz to 3 GHz
- LP-03: Log Periodic Antenna 800 MHz to 6 GHz
- LP-04: Log Periodic Antenna 200 MHz to 6 GHz
- TR-01: 60-180 cm wooden extendable tripod
- VDH-01: Van der Hoofden Test Head 20 kHz to 10 MHz
- Antenna Set AS-02 (BC01+LP02+TR01)
- Antenna Set AS-03 (BC01+LP02+LP03+TR01)
- Antenna Set AS-04 (BC01+LP04+TR01)
- Antenna Set AS-05 (BC01+LP04+DR01+TR01)
- Antenna Set AS-06 (BC01+LP02+LP03+DR01+TR01)
- Antenna Set AS-07 (BL01+TR01)
- Antenna Set AS-08 (BL01+DR01+TR01)
- RA-01: Rod Antenna 9 kHz to 30 MHz
- RA-01-HV: Rod Antenna 150 kHz to 30 MHz
- RA-01-MIL: Rod Antenna 9 kHz to 30 MHz
- Ansi 63,5 Antenna Factor
- SAE ARP 958-D
- Free-Space Antenna Factor
- CAL-6630: Traceable calibration
- LAT-6630: Accredited calibration

LISNs/Probes

- L2-16B: single phase AMN, 16 A
- L3-32: 4 lines, 3-phase AMN, 32 A
- L3-64: 4 lines, 3-phase AMN, 63 A
- L3-64/690V: 4 lines, 3-phase AMN, 63 A
- L3-100: 4 lines, 3-phase AMN, 100 A
- L1-150M: single-path, 50 Ohm AMN, 150 A
- L1-150M1: single-path, 50 Ohm AMN, 150 A
- L1-500: single phase AMN, 500 A
- L3-500: 4 lines, 3-phase AMN, 500 A
- RF-300: Van Veen Loop
- SBRF4: RF Switching Box
- SHC-1/1000: Voltage probe, 1000 Vac, 35 dB
- SHC-2/1000: Voltage probe, 1000 Vac, 30 dB
- EP-600: Field probe 100 kHz to 9,25 GHz 0,14 to 140 V/m
- EP-601: Field probe 10 kHz to 9,25 GHz 0,5 to 500 V/m
- EP-602: Field probe 5 kHz to 9,25 GHz 1,5 to 1500 V/m
- EP-603: Field probe 300 kHz to 18 GHz 0,17 to 170 V/m
- EP-604: Field probe 300 kHz to 26,5 GHz 0,4 to 800 V/m
- OR03: Optical Programmable Repeater with probes

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