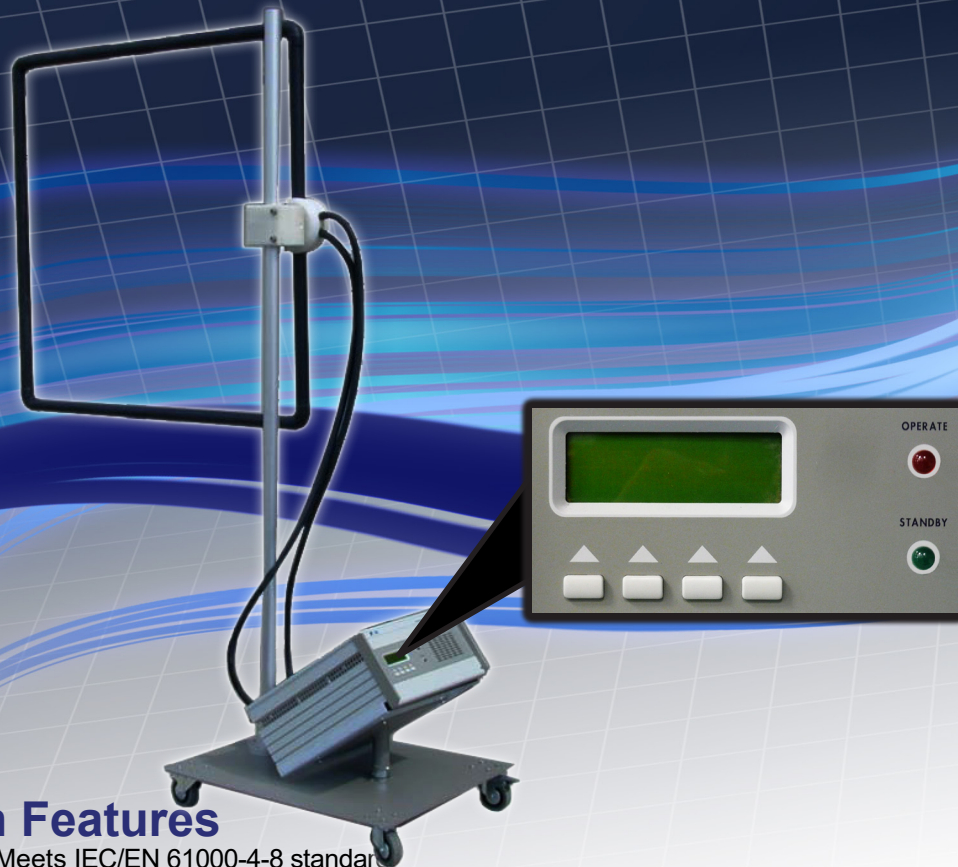


1008

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.

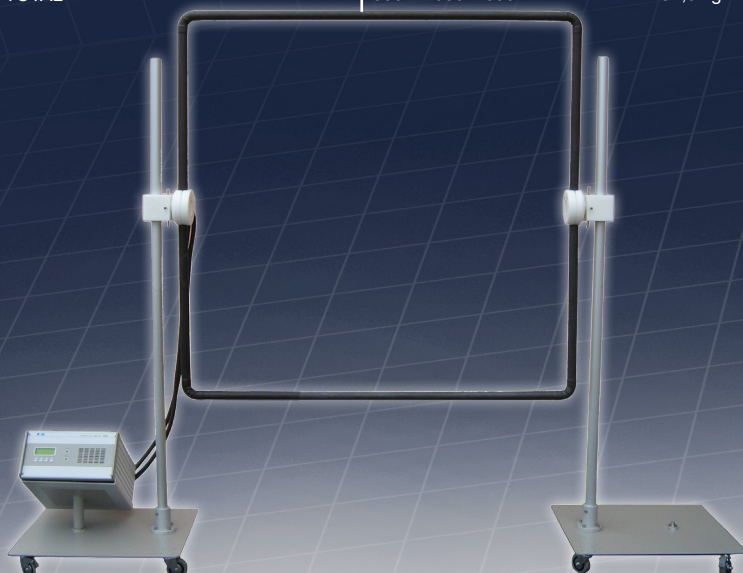
Due to the weight of the heavy-duty components, the 1008 needs a robust and stable mechanical structure that provides repeatable grounding; the stand is combined with one of the two masts of the antenna and can be easily moved across the lab and on the test plane.

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Magnetic field generator system

SPECIFICATIONS

| | | |
|--|--|---------|
| Current waveform | 50/60 Hz, sine waveform | |
| I/O Interface (protocol available for software developers) | RS-232; user port for hardware interlock key and external switch | |
| Display | LCD, four 20-character lines | |
| LED indicators | Operate, Standby | |
| Power supply | 230 Vac \pm 10 % - 50/60 Hz, 16 A max | |
| Output voltage without load | 4 Vac max | |
| Continuous and Intermittent mode | | |
| 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) | \varnothing 19 x 1500 mm | 1,6 kg |
| Swivel joint | 140 x 140 x 200 mm | 2,4 kg |
| Loop double mast | \varnothing 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

- 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
- 7010/01: 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
- ER8000/00 EMI Receiver 9 kHz to 30 MHz
- ER8000/01 EMI Receiver 9 kHz to 3 GHz
- ER9000/00 EMI Receiver 10 Hz to 30 MHz
- ER9000/01 EMI Receiver 10 Hz to 3 GHz
- 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