



**MFM 1020** is an automatic system for measurements according to MPR and TCO 95 and 99 of Visual Display Units.

**MFM 1020** is an integrated system including magnetic field, alternating and electrostatic field measurements in one package.

The main features of the MFM 1020 system are:

- Complete ELF+VLF fixture with instruments, turntable and control unit
- Alternating and electrostatic field measurements using the EFM 200
- Complete system has seven instruments, three MFM 10 system instruments, three MFM 1020 system instruments and one EFM 200
- Turntable with geneva drive and top predrilled for placement of individual VDT positioning fixtures
- MS Windows™ software including MPR and TCO95/99 testing with report generation and test result data base handling



## TECHNICAL DATA

**Magnetic field VLF:**

Measurement range: 5 - 1 400 nT RMS (MPR 1990)  
10 - 2 000 nT peak (MPR 1987)  
5 - 500 mT/s peak (MPR 1987)  
Frequency range: 2 - 400 kHz  
Measurement accuracy: Better than 3 % of measurement range

**Magnetic field ELF:**

Measurement range: 0.01 - 10,000  $\mu$ T  
Frequency range: 5 - 2,000 Hz  
Accuracy: Better than  $\pm$ 2% of reading or  $\pm$ 0.005 $\mu$ T  
Typical  $\pm$ 1% of reading or  $\pm$ 0.003 $\mu$ T

**Electrostatic field:**

Measurement range:  $\pm$ (0.5 - 1000) kV/m DC  
Accuracy:  $\pm$ (4% of reading + 0.3 kV/m)

**Alternating electric field ELF:**

Measurement range: 0.5 - 10,000 V/m rms  
Frequency range: 5-2000 Hz (-3dB)  
Accuracy:  $\pm$ (3% of reading + 0.2 V/m)

**Alternating electric field VLF:**

Frequency range: 2-400 kHz (-3 dB)  
Measurement range: 0.05 - 1000 V/m rms  
Accuracy:  $\pm$ (3% of reading + 0.03 V/m)

**System:**

Operating voltage: 220 V / 110 V, +/- 15%, 47-63 Hz  
Power consumption: appr. 100 VA  
Weight: appr. 60 kg (turntable system)

**Minimum PC requirements:**

486 or Pentium™ based PC with 16M RAM, MS Windows™ 3.1x, Windows 95 or Windows 98  
One free serial port. Optional Windows supported printer for result printing (not included).

**Systems**

15-01 MFM 1020 VLF+ELF system fixture 220 V  
15-02 MFM 1020 VLF+ELF system fixture 110 V

**Instruments**

10-21 MFM 1020 VLF system instrument 220 V  
10-22 MFM 1020 VLF system instrument 110 V  
12-21 MFM 10 ELF system instrument 220 V  
12-22 MFM 10 ELF system instrument 110 V  
20-11 EFM 200 remote mode version 220 V  
20-12 EFM 200 remote mode version 110 V

**Software**

31-21 MS Windows™ software package 220V  
31-22 MS Windows™ software package 110V

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Specifications subject to change without notice.