

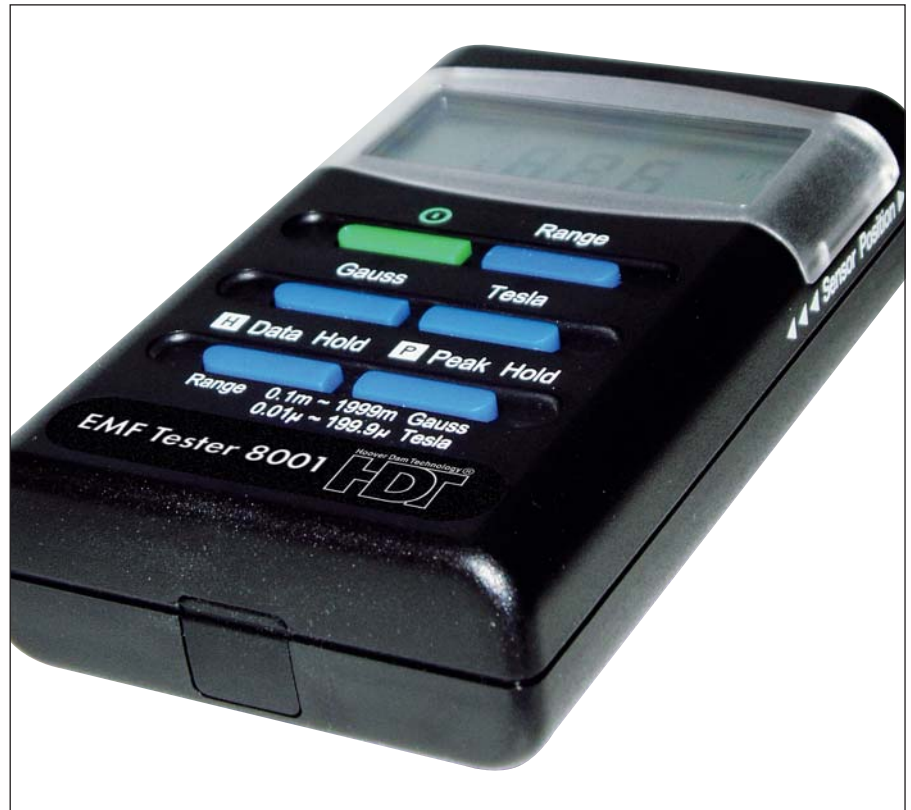
Information about electromagnetic fields

Information about electromagnetic fields

The modern life with its electrical household appliances, tools, machines and computers is inconceivable without electricity. In the highly industrialized countries, people are nowadays exposed to electric and magnetic field strengths which are far higher than natural stress.

Contrary to magnetic fields, electric fields can be shielded with little efforts.

The stress for human organism is much higher due to magnetic fields than due to electric fields. With the HDT measuring instruments for electromagnetic fields, you can control the magnetic field strengths in a very simple way.



Limit values

The recommendations of the "International Commission on Non-Ionizing Radiation Protection" (ICNIRP) had been taken on by the Federal Government for the Federal law for immission control (regulations for electro magnetic fields - 26th BImSchV) (1996):

| Frequency in Hz | Electrical Field Strength V/m | Magnetical Field Strength μ T (Mikrotesla) |
|-----------------|-------------------------------|--|
| 50 | 5000 | 100 |

Preventive values

The Ecolog Institute recommends a preventive value of 0,1 μ T for the magnetic flow density and building biologists even recommend 0,02 μ T for bedrooms.

The HDT measurement instrument for electromagnetic fields is a simple instrument to measure the magnetic field strength. The measured value is digitally displayed in Tesla (T). The ancient unit for the magnetic field strengths is Gauss (G) which is still common in the United States. The HDT measurement instrument for electromagnetic fields can also additionally display the magnetic field strengths in Gauss.



| | Distance 3 cm | Distance 30 cm | Distance 1 m |
|-------------------|---------------|-----------------------|--------------|
| Electric iron | 0 - 30 | 0,1 - 0,3 | 0,01 - 0,025 |
| TV | 2,5 - 50 | 0,04 - 2 | 0,01 - 0,15 |
| Washing machine | 3,5 - 20 | 0,6 - 3 | 0,07 - 0,3 |
| Hair dryer | 2,5 - 50 | 0,01 - 7 | 0,01 - 0,3 |
| Mikrowave oven | 6 - 2000 | 4 - 8 | 0,25 - 0,6 |
| Fluorecent tube | 70 - 200 | 0,5 - 2 | 0,02 - 0,25 |
| Vacuum cleaner | 40 - 400 | 2 - 20 | 0,13 - 2 |
| Radio alarm clock | 200 - 800 | 0,12 (50 cm Distance) | |

Typical values in private flats are 0,01 - 0,05 μ T for 50Hz-Magnetic Field Strengths.

EMF tester and safety accessories

EMF Tester 8001



Scope of supply

- 1 pc HDT EMF Tester 8001
- 4 pc Batteries 1,5V, IEC LR03 / AAA
- 1 pc Carrying Case
- 1 pc Instruction manual

Handy EMF tester

Digital EMF Tester for Measurement of Magnetic Field Strength

- direct display in Tesla or Gauss
- Integrated Data Hold
- Peak Hold
- Handy Construction
- Carrying Case included

Technical Data

| | |
|-------------------|---|
| Display | LCD, 3 1/2 digit, 1999 Digit |
| Measurement Range | 0...199,9 μ T 0...1999 mG |
| Resolution | 0,01 μ T / 0,1 μ T 0,1 mG / 1 mG |
| Accuracy | \pm (3 % rdg.+ 3 Digits) |
| Power Supply | 4 x 1,5 V, IEC LR03/AAA |
| Dimension | approx. 111 x 64 x 34 mm |
| Weight | approx. 165 g |



Order Information

| Description | Cat. No. |
|----------------|----------|
| HDT EMF-Tester | 8001 |