

Electro Magnetic Fields Overview

- EMF -

What is EMF?

Electro Magnetic Fields (EMF) emissions are created whenever electrical power flows through a wire, conductor or appliance; they can not be seen, felt or heard, but they are present in and around all electric lines and devices. EMF emissions are measured in units called milliGauss (mG). The strength of the EMF can vary and is measurable by use of this K-II EMF Meter.

Why Measure EMF?

EMF emissions are recognized as an environmental agent that are a potential threat to public health. Some scientific evidence suggests links of the biological effects of EMF to childhood leukemia, brain cancer, miscarriages and fetal abnormalities. We are exposed to EMF at home, in the workplace and even outdoors everyday.

What Levels are Safe?

Many studies have determined that the relationship between field strength and health risks also involves other factors which make it impossible to assign exact danger level limits based only on field strength.

Though the US government has not yet provided exact danger level limits, other countries and many states have already set standards for exposure based on field strengths. In general a target of 2 to 3 milliGauss is believed to be a reasonable maximum level for continuous exposure.

The EMF METER measures magnetic field strength. GREEN LED's indicates normal everyday levels of exposure, the higher more suspect field strength readings are indicated by the YELLOW, ORANGE and RED LED displays.

What can we do about it?

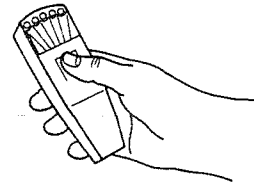
The easiest thing is to try to reduce your exposure to the fields by practicing "prudent avoidance". Measure all of the electrical appliances and devices at home, at work and when you travel, noting the results on the attached Exposure Log. Then try to avoid the YELLOW/ORANGE/RED range readings by staying far enough away from the appliance to remain in the GREEN range. Rearranging your furniture or appliances, or by using timers on some appliances to reduce exposure when operating can also be effective in reducing your exposure.

Continue to check field sources around and in your home, as well as in the schools or your workplace on a routine basis since fields may change (ie: appliances may change due to age or pending failure). Use the EMF METER when you travel, are looking at real estate or when shopping for new appliances.

DESCRIPTION

The EMF Meter is a compact and easy to use Magnetic Field strength meter. The EMF Meter can be used indoors or outdoors for measuring any electric device or power lines. There are 5 LED's, each represents a field strength range as follows:

GREEN	- "Normal" zone — <i>Normal background Magnetic Field</i> 0 to 1.5 milliGauss
GREEN	- "Low" zone — <i>Low-Level Magnetic Field</i> 1.5 to 2.5 milliGauss
YELLOW	- "Caution" zone — <i>Mid-Level Magnetic Field</i> 2.5 to 10 milliGauss
ORANGE	- "High" zone — <i>High-Level Magnetic Field</i> 10 to 20 milliGauss
RED	- "Warning" zone — <i>Extremely high Magnetic Field</i> 20+ milliGauss



OPERATION

- 1) Hold the EMF METER with your thumb on the switch
- 2) Point it toward the EMF source, then depress and hold down the switch (a short flash of the LED's will occur)
- 3) The LED will indicate the range of the EMF at that level
- 4) Moving the device from side to side or rotating it may change the reading; the highest reading is most accurate
- 5) Move closer or further away to the EMF source to determine the "Normal" zone, as indicated by the Green LED

Helpful Hints:

- Record the readings on the enclosed Exposure Log, repeat periodically, since fields can change in strength
- If the GREEN LED (Normal) doesn't light, the battery is low
- To change battery remove the two screws, replace 9V battery

SPECIFICATIONS:

Detection Range — 0 to 20+ milliGauss

Detection Frequency — 50/60 Hz (50 to 1000 Hz — ELF)
(1000 to 20,000 Hz — VLF)

Accuracy — 5% (typical)

Operating Temperature — 0 to 120 Degrees F (-18 to 49C)

Battery Requirements — 9 Volt battery

Size & Weight — 5.75"(L) x 2.25"(W) x 1"(H); 6 ounces

WARRANTY

K-II Enterprises warrants the EMF METER to be free of defects in material and workmanship for a period of 60 days from the date of purchase from the manufacturer or authorized dealer or distributor. This manufacturer's warranty does not supersede nor does it include any warranties which may be offered by any authorized distributors or retailers.

K-II Enterprises is not responsible and does not warrant the battery or damage caused by the battery used in this product.

All warranties are voided if the product has been damaged, adjusted, abused, modified or tampered with by any other than K-II Enterprises authorized personnel.

All expressed or implied warranties for this product, including warranties of merchantability and fitness for a particular purpose, are limited in duration to a period of 60 days from the date of purchase, and no warranties, whether expressed or implied will apply after this period.

Some states do not allow limitations on how long an implied warranty lasts or exclusions or limitations of incidental or consequential damages, so the above limitations may not apply to you.

K-II Enterprises liability, whether based on contract, tort, warranty, strict liability or any other theory, shall not exceed the price of the individual product whose defect or damage is the basis of the claim. In no event will K-II Enterprises or its dealers or suppliers be liable to the user for any damages, including any lost profits, lost savings, or other incidental, consequential, physical, or personal damages arising out of the use or inability to use this product.

To make a claim under this warranty for replacement or repair, return the EMF METER with dated purchase receipt to the original place of purchase or write K-II, PO Box 306, Camillus, NY 13031 for shipment instructions - DO NOT RETURN PRODUCT TO THIS

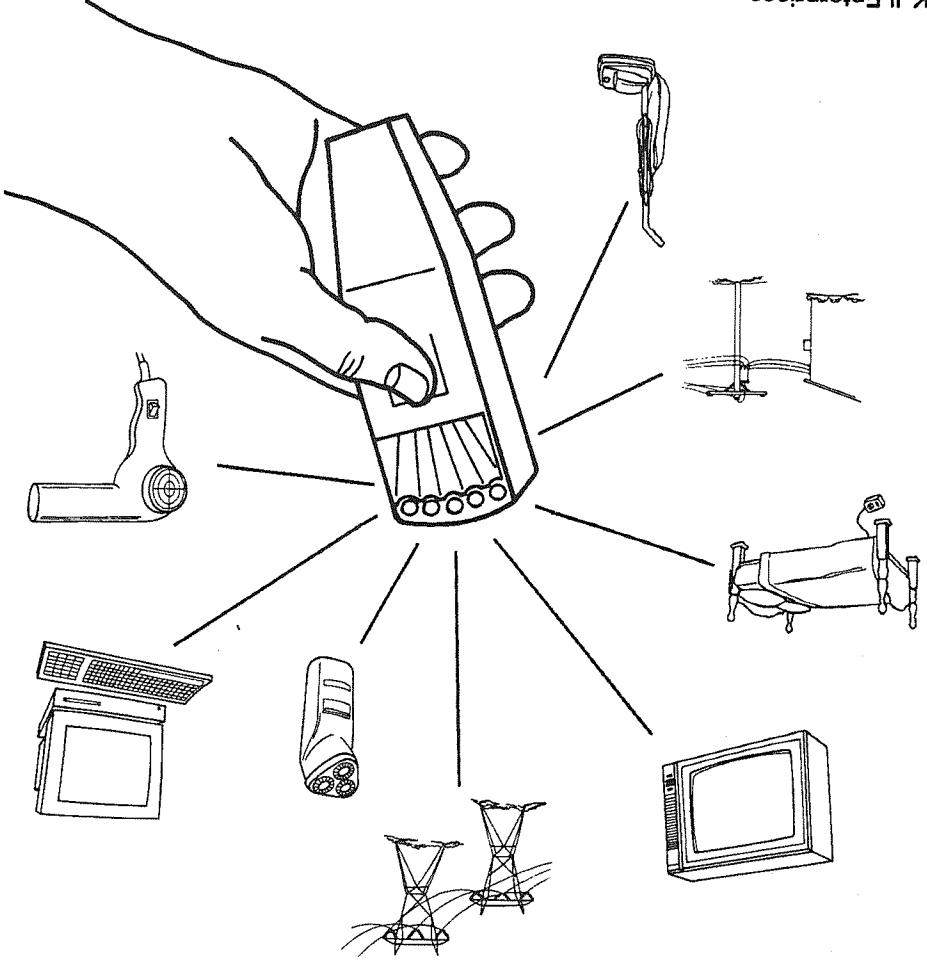
EMF Meter Measurement Chart
 Directions: Repeat at same distance required to reach the GREEN Level each time.

Room	Level/Distance/Date	Level/Distance/Date	Level/Distance/Date
Kitchen	Microwave	/	/
	Stove	/	/
	Dishwasher	/	/
	Ventilation Fan	/	/
	Refrigerator	/	/
	Coffee Maker	/	/
	Clock	/	/
	Can Opener	/	/
	Garbage Disposal	/	/
	Toaster	/	/
Living Room	Mixer	/	/
	Electric Frying Pan	/	/
	Bread Maker	/	/
	Crock Pot	/	/
	Corn Popper	/	/
	Toaster Oven	/	/
	Lights (1)	/	/
	Lights (2)	/	/
	Television	/	/
	Stereo	/	/
Bedrooms	VCR	/	/
	Clock	/	/
	Fan	/	/
	Lights (1)	/	/
	Lights (2)	/	/
	Television	/	/
	Clocks (Radio)	/	/
	Electric Blanket	/	/
	Water Bed Heater	/	/
	Electric Razor	/	/
Bathrooms	Hair Dryer	/	/
	Ventilation Fans	/	/
	Electric Toothbrush	/	/
	Curling Iron	/	/
	Lights	/	/
	Washer	/	/
	Dryer	/	/
	Iron	/	/
	Lights	/	/
	Garage Door Opener	/	/
Miscellaneous	Power Tools (1)	/	/
	Power Tools (2)	/	/
	Power Tools (3)	/	/
	Power Tools (4)	/	/
	Electric Heaters	/	/
	Furnace	/	/
	Air Conditioner	/	/
	Dehumidifiers	/	/
	Humidifiers	/	/
	Vacuum Cleaner	/	/
Laundry Room	Computer	/	/
	Video Display Terminal	/	/
	Water Heater	/	/
	Typewriter	/	/
	Copier	/	/
	Telex	/	/
	Overhead Transmission Line	/	/
	Primary House Connection	/	/
	Electric Bug Zappers	/	/
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References:

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 — Vertheimer, N. and Leeper, E. "Electrical Wiring Configurations and Childhood Cancer", American Journal of Epidemiology, March 1979
 — Granger, M.G. "Electric and Magnetic Fields From 60 Hertz Electric Power: What Do We Know About Possible Health Risks?" Department Engineering and Public Policy, Carnegie Mellon University, 1989

SAFE RANGE EMF METER™



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MADE IN THE USA ★