

Bumps in the Night!!!!

March 2014 Issue

Tools of the Trade

Natural EM Meter

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For those of you that like the TriField 100XE Meter (EMF Meter) there is another TriField product you should check out. The TriField Natural EM Meter. The Natural EM Meter was designed to do field measurements for special research and it detects changes in extremely weak static (Direct Current (DC) or "natural") electric and magnetic fields. These changes, either to the electric or magnetic fields, are signaled with a tone and the movement of a needle. The Natural EM Meter is a single-axis meter and includes detection for both radio and microwave.

The Natural EM Meter has been designed to ignore Alternating Current (AC) fields, such as the power that comes through a house wall outlet/socket, and just detect DC fields, such as a battery, fuel cell, human, or animal. Where the 100XE model read man-made fields, the Natural EM will not detect any man-made fields. The reason to ignore AC fields is because man-made AC electric and magnetic fields are very common and could interfere with readings of static fields. The theory is that if a spirit used to be a human being this maybe they give off DC current and not AC current like previously suspected. Because it detects DC current (human energy) you can NOT carry this meter

around or be close to it. You will need to place the meter on a surface and give some space between it and yourself.

Note that normal construction materials will NOT block magnetic fields. Additionally due to the built-in tone, it can be used in the dark, and will sound the tone at whatever level of field the user sets. Additionally, we have built our own light source so the needle readings can be seen.

There are two different models of the Natural EM Meter, Model 1 or Model 2. The main difference between the two models is how it handles the SUM feature, which will be discussed in more detail later in this article. Additionally, Model 2 has a AC power jack and an input jack for an high-sensitivity magnetic coil, that can be used to detect magnetic sources from a distance. For use in the field of paranormal research, Model 1 seems best suited for a "ghost hunter" and Model 2 for the UFO enthusiast.

The Natural EM Meter has the following dial settings:

- **Battery Test** – Just like the name says it can be used to test the strength of the meter's battery.
- **Magnetic Fields** - When the dial is set to MAGNETIC, the meter is sensitive to slight changes of the Earth's magnetic field and a tone will sound to indicate an increase or decrease in that field. After an event has been detected and the magnetic field becomes stable for more than five (5) seconds, the tone will stop and the needle will return to zero (0). The meter will remain silent until the magnetic field changes. This meter can be used to determine if an object, such as a bed frame, piece of furniture, or even a rock, is magnetized.



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- **SUM** - When the dial is set to SUM, the meter will add together the values of two of the other settings to detect a change. SUM works differently depending on the model of Natural EM Meter you are using. Model 1 adds together (sums up) the electric and magnetic fields and detects if either field changes. Model 1 can detect a person up to 10' away, even through a wall or door. Model 2 adds together (sums up) the magnetic plus radio/microwave. The SUM setting in Model 2 is a good detector for unusual atmospheric electromagnetic activity, but does not falsely trigger when a human is nearby. As mentioned above Model 1 seems to be best suited for "ghost hunters" and Model 2 for UFO enthusiasts.
- **Electric Fields** - When the dial is set to ELECTRIC, the meter is sensitive to electric fields as weak as 3 V/m (volts per meter). Since indoor electric fields typically fluctuate 1 or 2 V/m, this meter has been designed to ignore "background noise" because the minimum sensitivity to change is 3 V/m.
- **RADIO/MICROWAVE** - When the dial is set to RADIO/MICROWAVE, the meter can be used to detect strong or unusual atmospheric electrical activity. This meter can be used to detect a leaky microwave oven, a cellular or portable phones, walkie-talkies and concealed surveillance bugs. Thus making this meter a great debunking tool.

While the Natural EM Meter (DC) looks almost identical to the 100XE Meter (AC), there are some differences to note. Such as,

1. there are two scales to take measurements with, instead of three:
 - Top scale measures the magnetic field (0-100 microteslas) and the electric field (multiply by 10 to get volts/meter).
 - Bottom scale measures the radio/microwave field directly (mW/cm²), just like the 100XE Meter.
2. the SUM setting. Which is the combination of value of two fields; which two fields depends on the model. Any change in either field will be indicated on the meter. The two models were discussed previously in this article.
3. the audio tone control. The threshold level (or squelch level) of the tone is adjustable by a dial on the side of the unit. The operator can adjust the amount of change in the magnetic field required to sound the tone: low pitch for a threshold change and a higher pitch for a larger change.

Sources and/or additional reading:

TriField 100XE Meter: <http://www.trifield.com/content/trifield-meter/>

TriField Natural EM Meter: <http://www.trifield.com/content/natural-electromagnetic-meter/>

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