

Safe and Sound Pro II

200 MHz - 8 GHz
Broadband RF Meter



ABOUT

We introduce the Safe and Sound Pro II RF Meter. Designed to meet professional standards of accuracy and reliability, the Safe and Sound Pro II features:

- A true ± 6 dB response from 400 MHz - 7.2 GHz and a full frequency response from 200 MHz - 8 GHz
- Ability to detect short pulses ($< 5 \mu s$) including 5G
- High sensitivity and resolution at low levels
- Long battery life: >15 hours with speaker on
- A clear display with PEAK, MAX & AVG readings
- Measures up to 2,500,000 $\mu W/m^2$
- Loud adjustable speaker sound output - 3 levels
- 1/8" stereo headphone jack
- Continuous operation via USB power

This sensitive meter is capable of measuring potentially harmful RF or microwave radiation from any continuous or pulsed digital sources. To help identify these various sources, the Safe and Sound Pro II includes a built in speaker with adjustable volume levels. Each source has its own unique sound signature.

OPERATION

To turn on the unit, simply slide the power switch up to the middle (or top position) for enabling sound. The startup screen will show the self calibration process and the approximate battery level in percent remaining. With sound enabled, the speaker volume switch can be set to three levels: LOW, MEDIUM and HIGH.

Scan the area to record the highest MAX reading by moving it in all directions while keeping it at least 30 cm or 1 foot from your body. If the RF levels are at or below a safe, long-term exposure level for sleeping areas, the green LED will be solid or flashing if it's an ideal environment.

Startup Screen

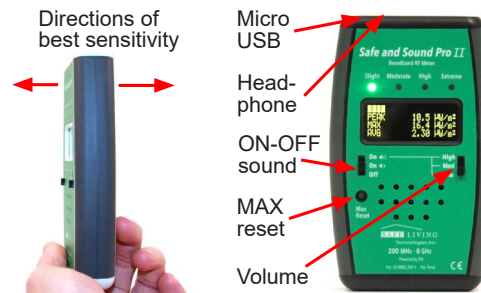


Measurement Screen



Quick view indicator lights

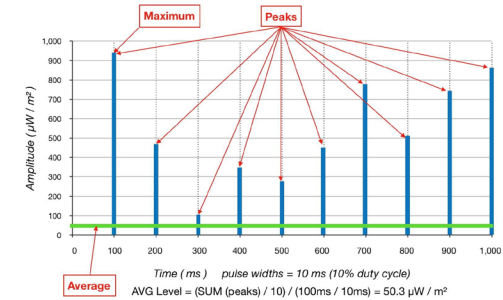
- RED: Extreme**
Move away from this exposure. Flashing indicates more than 10x extreme. Fast flashing indicates more than 100x extreme
- ORANGE: High**
Try to limit the time of your exposure at this level.
- YELLOW: Moderate**
Reduce this level for long term exposure.
- GREEN (solid): Slight**
Good for sleeping areas and long term exposure. Flashing indicates best and ideal conditions.



TERMINOLOGY

- PEAK:** Maximum instantaneous signal level.
- MAX:** Highest measured PEAK value.
- AVG:** Time averaged signal power density.

The graph below shows how average signal levels are calculated and why these levels are often much lower than peak levels. Example WiFi beacon:



BACKGROUND

Biological damage from microwave radiation at a cellular level occurs at levels much lower than the current government safety standards. They only consider the heating of tissue to be a health concern. This meter reflects the latest science and building biology standards.

Environments with high levels of RF are often a reality now. The goal is to reduce your exposure as much as possible. This is especially important in sleeping areas.

PEAK VALUES

- Red (Fast Flash)** $> 100,000 \mu W/m^2$
- Red (Flash)** 10,000 - 100,000 $\mu W/m^2$
- Red** 1000 - 10,000 $\mu W/m^2$
- Orange** 100-1000 $\mu W/m^2$
- Yellow** 10-100 $\mu W/m^2$
- Green** 1-10 $\mu W/m^2$
- Green (Flashing)** $< 1 \mu W/m^2$

NOTES

The unit will automatically turn itself off after 30 minutes. To turn it on again, move the power switch to the OFF position, then back ON again.

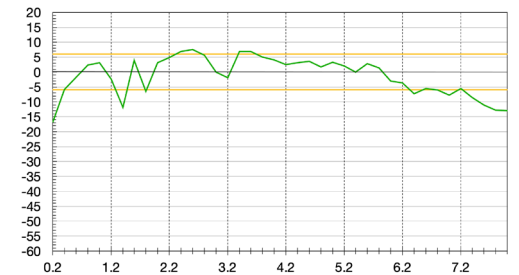
To use the Safe and Sound Pro II continuously, or without batteries, connect a computer or 5V USB charger to the micro USB jack.

When headphones are connected to the 1/8" jack, the internal speaker is automatically muted.

Use the Max Reset button to clear the MAX value.

TECHNICAL SPECIFICATIONS

- Frequency range: 200MHz - 8GHz
- Response Time: $< 5 \mu s$
- Recommended Battery Type: 2 x AA alkaline
- Battery Life: > 15 hours with speaker on



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