

EMFields

www.emfields-solutions.com

RadAware

Personal Microwave Exposure Alarm

Get early warning of when you are being exposed
(you will be surprised how often you are!)

It is thousands of times more sensitive than other microwave RF alarms on the market and detects over more than twice the frequency range, including those currently planned for 5G

At its most sensitive it can detect peak exposures down to about 0.01 V/m (0.25 $\mu\text{W}/\text{m}^2$)

Main detection frequency range: 200 MHz to 6 GHz

Three LED alarm-level light indicators plus sounds that indicate six different alarm levels
(the sounds can be switched off)



LED

Green: single ticking; double ticking
Yellow: three ticks; 4 louder beeps
Red : on-off beeping; 'flatline' continuous tone

Sounds

The RadAware measures the peak RF / microwave level 128 times every second.

A separate green flashing LED above the on-off switch indicates that it is working.

The sensitivity can be adjusted to suit your personal requirements by carefully turning the adjustment knob from very sensitive to least sensitive.

The most sensitive setting covers the range

<0.015 V/m (0.6 $\mu\text{W}/\text{m}^2$, 0.00006 $\mu\text{W}/\text{cm}^2$) **Green** – **Red 0.15 V/m** (60 $\mu\text{W}/\text{m}^2$, 0.006 $\mu\text{W}/\text{cm}^2$)

The least sensitive setting covers the range

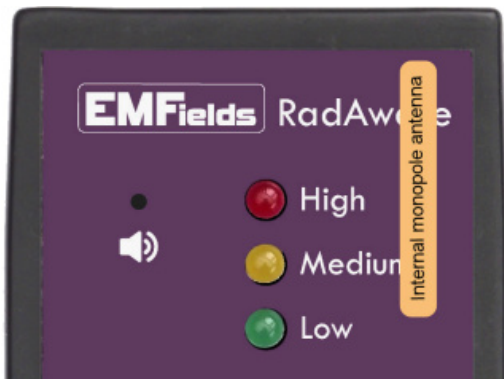
<0.3 V/m (240 $\mu\text{W}/\text{m}^2$, 0.024 $\mu\text{W}/\text{cm}^2$) **Green** – **Red 3 V/m** (24000 $\mu\text{W}/\text{m}^2$, 2.4 $\mu\text{W}/\text{cm}^2$)

The adjustment is linear. Mid-way-position scale is approx. 0.15 V/m to 1.5 V/m

Alarm indications

Sound	LED	(V/m)	(power)
<i>relative level to first green LED</i>			
Continuous tone	Red	x 10	x 100
On-off beeping	Red	x 6	x 36
Four beeps	Yellow	x 4	x 16
Three ticks	Yellow	x 2.5	x 6.3
Double ticks	Green	x 1.5	x 2.3
Single ticks	Green	1	1

This shows the internal antenna position:



Technical specifications

- Adjustable RF/microwave exposure alarm
- Frequency 200 MHz to 6 GHz ± 6 dB typical
- RF alarm range: less than 0.015 V/m to 3 V/m
- Adjustable range sensitivity from:
 - » <0.015-0.15 V/m (0.6 - 60 $\mu\text{W}/\text{m}^2$ to)
 - » <0.3 - 3 V/m (240 - 24000 $\mu\text{W}/\text{m}^2$)
- levels shown on 3 coloured LEDs and
 - » six different alarm sounds
- Battery: PP3 9V Alkaline or Rechargeable
- Average current: 1 mA (no sounder)
- Battery life: 2 - 3 weeks (normal alkaline)
- Low battery (6.7V) sound alarm beep
- Size (mm): 110 x 63 x 21 (LxWxD)
- Weight: 140g incl. battery; 175g with pouch

If used 24hrs/day, the battery life is about 7 days on a 200 mAh rechargeable Lion battery and about 3 weeks on a 550 mAh standard alkaline battery, provided that it is not regularly sounding an alarm. If the alarm does regularly sound, the battery life will be shorter.

There is an audible, in-built, low battery warning.

We recommend that people who want continuous monitoring use rechargeable cells. You can use a mains adapter (available separately) for room monitoring in a fixed location.

The instrument is not waterproof and should be covered with a clear plastic bag if being used in wet conditions.

Warranty

A new RadAware has a two year return-to-base manufacturer's warranty.

This does not cover general wear & tear or physical (including water) damage.

The RadAware complies with the following approval requirements:



EN61000-6-3:2001+A11:2004

EN61000-6-1:2001 and also meets

ROHS 2 2011 (2002/95/EC) and

WEEE (2012/19/EU)(2002/96/EC)



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