



Affordable



50 MHz - 6 GHz



Data logging



Life saver



Robust



All weather design



1300 000 RFI
rfiwireless.com.au

field:SENSE
● Personal RF Monitor

We've got you covered



So affordable, every worker
can carry one

www.rfiwireless.com.au

Key features

Frequency range

The frequency range has been expanded to 50 MHz - 6 GHz which covers all typical television and FM radio broadcast services and all mobile telecommunications services amongst others. This means this is the only RF monitor a RF worker will need.

E & H fields measured

RF Safety guidelines use the radiated power density, S in milliWatt/cm² or Watt/m² to assess exposure to electromagnetic fields in a given situation. This is derived from the measured E (electric) and H (magnetic) fields. To accurately assess a given exposure situation, both of these should be measured, especially when working very low in frequency around FM transmitters for instance. Only measuring E field in these instances can lead to inadvertent RF overexposure. The FieldSENSE 2.0 with extended frequency range correctly measures the H field as it is required when measuring lower in frequency.

Shaped response

The exposure limits, such as the FCC (NCRP), SC6 or ICNIRP limits are ALL shaped over frequency and as such PPE must also have a shaped probe response to accurately measure in accordance with it. RF monitors not having a shaped response are inaccurate and can result in an individual being overexposed.

Isotropic

The FieldSENSE 2.0 has a total of 6 orthogonal E & H field probes to ensure that the combination of all sources of radiation from all angles are correctly measured and assessed in accordance with the safety limits.

Data logging

The FieldSENSE 2.0 now has an advanced E & H field data logger which records all your measurements so that you can access them easily over a USB connection to your PC in the office. You can even view data real-time over the USB connection with the PC application.

Voice notes

Ever been up a tower and needed to jot down a serial number or something site specific? Well with the inbuilt logging feature you can also take quick voice notes which you can access later in the office, the data is paired with the logged E & H fields so specific exposure conditions can easily be tagged.

Fall-detect & alarm

The FieldSENSE 2.0 has an inbuilt fall detection system which sounds an alarm should you accidentally fall. The alarm is easily silenced should the climber still be conscious but should he/she not be the sounding alarm will attract the attention of colleagues to immediately initiate rescue actions thus reducing the potential effects of suspension trauma.

User interface

High brightness amber LED indicators for direct sunlight visibility and a loud buzzer ensure you won't miss a thing. Also designed to be operated whilst wearing gloves, so no risk of losing a glove down the tower.

Harness fastening

Special strap & buckle system for fastening your device to your climbers harness ensures easy access to it. Specifically designed to keep it away from areas which are either heavily utilised for carrying lots of gear or tools like the waist, or areas which impede easy climbing or limit circulation like the arm or wrist.

Wrist strap

Easily adjustable wrist strap ensures you never accidentally drop your device when working at heights.

Rugged IP64 enclosure

The FieldSENSE 2.0 has a special co-moulded enclosure with a base layer of polycarbonate which is typically used in riot shields, and an outer elastomer layer made of TPU which is designed for hard wearing environments. The design provides for IP64 dust & moisture ingress rating.

After doing a couple sets of the standard 4ft drop tests onto concrete we were a little bored and changed to "throw testing" up in the air of approximately 20-30ft with falls onto concrete. So we are convinced this device can handle the normal knocks & bumps all tower equipment faces. No "special" care needed, just throw it in your tool bag or leave it strapped to your harness and get to the job on hand.

AAA batteries

The FieldSENSE 2.0 uses readily available AAA (LR03) batteries.

"Grippy" design

Special bevelled design to fit tightly into your hand with a textured soft elastomer surface and grip ridges ensuring you don't have any fumble moments up in the air.

Zipper case with moulded foam insert

Shipped in a heavy duty zipper case with a custom moulded insert makes for even further protection of your device.

Tripod attachment point

A tripod attachment point on the base of the device allows for setting up remote monitoring of a site, or for attaching an extension pole in given instance.

Product Specifications:

Frequency range of operation	50 MHz to 6 GHz
Frequency response	Shaped - ICNIRP (1998)
Sensor polarisation	Isotropic
Isotropy	± 3 dB
Probes	E Field & H Field (3 orthogonal probes each)
Result type	Time-averaged RMS power density
Calibration interval	2 yearly
Level indicators 7 LED's	Percentage of exposure reference level 2%, 5%, 10%, 25%, 50%, 100%, 200% or more
Audio alarm indicators 50% (5th LED) 100% (6th LED) 200% (7th LED)	0.75 Hz beep 1.5 Hz beep 3 Hz beep
Operation	Single button operation
Data logging	E, H and maximum & audio notes
PC connection	Micro USB connection. Software available on website.
Fall detection system	3 axis accelerometer
Battery life	6-12 months on average usage
Low battery warning	Flashing LED
Battery type	2 x 1.5 V Size AAA (LR03) alkaline
Mounting options	Handheld (with wrist strap on lanyard) Harness (with special harness strap) Tripod socket (remote monitoring)
Including	Rugged reusable zipper case Wrist strap, adjustable Harness strap, adjustable User manual & calibration certificate 2 x AAA type batteries
Dimensions	146 x 26 x 42mm
Weight (inc. batteries)	115g
Temperature	Operating: -20°C to 50°C
Additional environmental testing	Vibration, drop & humidity
Certification	CE