





DATA SHEET

Technical Specifications

Frequency range of operation		50 MHz - 60 GHz	50 MHz - 60 GHz		
Frequency response		Shaped to measure ir - ICNIRP (2020) - FCC [NCRP] 0ET65 - EU Directive 2013/3 - Canada Safety Cod	(1997) 35/EU		
Probe architecture		 Magnetic (H) field, Combination of (E) 	 Electric (E) field, 3 x orthogonal axis isotropic for V/m assessment Magnetic (H) field, 3 x orthogonal axis isotropic for A/m assessment Combination of (E) & (H) for correct Power density (S) in W/m2 or mW/cm2 Results displayed as percentage of RF exposure standards 		
RF Exposure conditions		assessed for safety FM & Television tra - Far field (further fro accordingly - Multiple concurrent	 Multiple concurrent sources of RF, both near & far field correctly assessed and combined to present a single cumulative result in terms of relevant RF exposure 		
RF Current sensor (H)		 "Hot" guy & anchor 	Identify RF currents running on structures through concentrated H fields - "Hot" guy & anchor wire assessments - Pre-climb structure RF current check		
Sensor polarisation		Spherical dual polaris	Spherical dual polarised Isotropic (± 3 dB < 6 GHz)		
Probe damage levels		26 dB above Standard	26 dB above Standard / 40 000%		
Radar		Not suitable for radar	Not suitable for radar applications		
Frequency response table					
Frequency	ICNIRP (2020)	FCC/NCRP	2013/35/EU	Canada SC6 (2015)	
50 MHz — 10 GHz	2.0 ± 3.0 dB	2.5 ± 3.5 dB	2.0 ± 3.0 dB	1.0 ± 4.0 dB	
10 GHz — 27 GHz	1.0 ± 4.0 dB	1.0 ± 4.0 dB	1.0 ± 4.0 dB	1.0 ± 4.0 dB	
27 GHz — 40 GHz	6.0 ± 4.0 dB	6.0 ± 4.0 dB	6.0 ± 4.0 dB	6.0 ± 4.0 dB	
40 GHz — 60 GHz	7.5 ± 5.5 dB	7.5 ± 5.5 dB	7.5 ± 5.5 dB	7.5 ± 5.5 dB	

Indicators & Alarms

Fall detection & alarm	3-axis accelerometer - Audio alarm sounded for 2m/6ft free fall - Alarm can only be cleared by power cycle
Visual RF exposure level indicators*	7 x Super bright LED's - Percentage of Exposure Reference level - 2 %, 5 %, 10 %, 25 %, 50 %, 100 %, 200 % 100% is exceedance of maximum permissible Occupational exposure
Audio RF exposure level indicators* 50% (5th LED) 100% (6th LED) 200% (7th LED)	4 kHz wind noise rejecting buzzer0.75 Hz beep rate1.5 Hz beep rate3.0 Hz beep rate
Low battery indicator	Battery potential continuously monitored and dedicated low battery warning indicator
Audio recording indicator	Dedicated audio recording indicator
Power on indicator	Pulsing (1Hz) device ON indicator

^{*} Levels and alarms factory programmed and cannot be reconfigured or tampered with by user to mitigate the risks of inadvertent or malicious RF overexposure

Device Tethering Features

Handheld operation	Simple adjustable wrist strap to avoid dropping device	
Remote monitoring	Tripod attachment point ¼"-20 UNC thread	
Multi-strapping option	Elastomer strap included for fastening the device to various objects	
Harness attachment mechanism	Rapid, one hand operation harness clip with coiled lanyard included stops inadvertent drops of the device	

RF exposure level logging & Audio notes

RF logs stored	 E-field H-field Maximum 6-minute average of Maximum ** all stored as percentage of exposure standard due to wide band shaped probe response
Optional RF logging disablement	RF logs cannot be disabled by user to ensure logs are kept of all exposure conditions
RF log data resolution	1 second resolution stored, always
RF logging capacity	Typically, 3-6 months of data in real usage conditions, at 1 second resolution
Audio notes	Optional recording of voice notes once ON, double tap of POWER button initiates recording, single tap ends recording Up to 7 minutes of combined audio notes recorded and accessible via PC connection only. No inbuilt playback.
Out of memory	Memory never full, just utilizes circular memory model ensuring current logs will always be recorded and oldest data overwritten first
Date & Time synchronisation	Synchronise to local date & time via PC software available for download at www.fieldsense.com
PC /MAC	PC only, via USB cable supplied

→ Usage & Maintenance

Operation	 Single button for switching device ON & OFF Long press prevents accidental power cycle Can be operated using thick gloves 	
Batteries	 2 x AAA (LR03) Alkaline batteries plus 2 extra Intentionally non-recharging to mitigate risks associated with accelerated self-discharge rates of rechargeable batteries in cold climates, and travel/freight restrictions classifying as dangerous goods 	
Battery life	6-12 months on average usage	
Battery replacement	Easily accessible compartment using 2 x M2 threaded screws	
Calibration	Recommended 2 yearly calibration	

Mechanical & Environmental considerations

Device dimensions	146 x 26 x 42 mm / 5.7 x 1.0 x 1.7 inches
Weight (including batteries)	115 g / 0.25 lb
IEC 60529 enclosure rating	IP64 (battery cap closed) Rain & dust sealed
Operating temperature	-20 °C to 50 °C / -4 °F to 122 °F
Packaging	Rugged re-usable zipper case with foamed PU insert ensures safe storage and transport of device
User manual	Multi-language user manual included together with calibration certificate
Certification	CE CE