

+ EME Guard XS *Radar*

An EMF Monitoring Device to Alert Workers Near Radar Transmitters



- Accurate measurement with tri-axis sensors
- Instant audio and visual alarm
- Robust, reliable and user-friendly
- Measurements up to 30 GHz
- Detects short pulsed signals

MAIN FEATURES

User profile

- Persons working near radar transmitters or antennas including installation and maintenance workers, broadcast, PMR and mobile phone operators or regulatory body employees

Measurement capabilities

- Continuous monitoring of Electromagnetic Field levels with isotropic tri-axis E-field sensors
- EMF Level indicated by a LED color scale
- Audio and visual alarms triggered when EMF exceeds the reference level
- Short pulsed signal detection

Frequency bands

- 1 MHz - 40 GHz

Safety recommendations

- ICNIRP 2020
- Code de sécurité 6 2015
- FCC 96-326
- 2013/35/UE

PRODUCT CONFIGURATION

Equipment

- EME Guard XS
- MVG Case
- Wrist strap
- Lanyard
- Connecting adapter
- Armband
- 2 x 1.2 V / 500 mAh NiMH rechargeable batteries Size N
- Batteries charger
- 2 x batteries charge adapter
- Instructions for use

Services

- Initial calibration
- Additional calibration
- Extended warranty

TECHNICAL CHARACTERISTICS

Probe	Isotropic 3-axes probe
Frequency range	1 MHz - 40 GHz
Lower detection limit	5 V/m
Upper detection limit	350 V/m

MEASUREMENT UNCERTAINTY

Frequency response	1-1000 MHz: +1/+5 dB
	1-3 GHz: +/-2.5 dB
	3-7 GHz: +2/+6 dB
	7-13 GHz: +6/+11 dB
	13-27 GHz: -7/+5.5 dB
Axial isotropy	27-40 GHz: -6/0 dB
	100 MHz: ± 0.5 dB
	2.6 GHz: ± 0.7 dB
	5.5 GHz: ± 0.9 dB

ALARM & CONFIGURATION

Reference threshold	Alarm threshold can be adjusted at MVG factory upon request
Visual alarm	7 LEDs
Audio alarm	2 tones (activated from 5 to 350 V/m)
Low battery indicator	Orange flashing LED
Alarms update period	1 sec

MEASUREMENT CONFIGURATION

Measurement period	20 ms
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CONDITIONS FOR USE

Temperature, humidity	-10°C to 50°C, 85% max humidity
Battery	2 x 1.2 V / 500 mAh Size N NiMH rechargeable batteries
Battery life	> 13 hours ⁽¹⁾

MECHANICAL CHARACTERISTICS

Dimensions	132.5 x 48.5 x 28.7 mm (LxWxH) without connecting adapter
Weight	120 g with batteries

(1) If no alarm is triggered



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