

# EME Guard XS

An EMF Monitoring Device to Alert Workers Near Antennas



- Accurate measurement with tri-axis sensors
- Instant audio and visual alarm
- Robust, reliable and user-friendly

## Main features

### User profile

- Persons working near 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

### Frequency bands

- 80 MHz – 6 GHz

### Safety recommendations

- ICNIRP
- FCC 96-326
- Safety Code 6
- 2013/35/UE  
*New EU Directive*
- Alarm threshold can be adjusted at MVG factory upon request

## Product Configuration

### Equipment

- EME Guard XS
- MVG Case
- Wrist strap
- Lanyard
- Connecting adapter
- Armband
- 2 x 1.5 V Size N Alkaline batteries
- Instructions for use

### Services

- Initial calibration
- Additional calibration
- Extended warranty

■ Included □ Optional

## TECHNICAL CHARACTERISTICS

|                       |                        |
|-----------------------|------------------------|
| Probe                 | Isotropic 3-axes probe |
| Frequency range       | 80 MHz - 6 GHz         |
| Lower detection limit | 5 V/m                  |
| Upper detection limit | 350 V/m                |

## MEASUREMENT UNCERTAINTY

| Frequency (MHz) | Frequency response | Axial isotropy |
|-----------------|--------------------|----------------|
| 80 - 700        | -2 / +4 dB         | +/- 0.5 dB     |
| 700 - 2700      | -1 / +5 dB         | +/- 0.7 dB     |
| 2700 - 6000     | +2 / +7 dB         | +/- 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   |

## MEASUREMENT CONFIGURATION

|                    |       |
|--------------------|-------|
| Measurement period | 1 sec |
|--------------------|-------|

## CONDITIONS FOR USE

|                       |   |
|-----------------------|---|
| Temperature, humidity | -10°C to 50°C,<br>85% max humidity            |
| Battery               | 2 x 1.5 V Size N Alkaline removable batteries |
| Battery life          | > 1000 hours (> 50 days) <sup>(1)</sup>       |

## MECHANICAL CHARACTERISTICS

|            |  |
|------------|--|
| Dimensions | 132.5 x 48.5 x 28.7 mm (LxWxH)<br>without connecting adapter |
| Weight     | 120 g with batteries   |

(1) If no alarm is triggered



Contact your local sales representative for more information  
[salesteam@mvg-world.com](mailto:salesteam@mvg-world.com)  
[www.mvg-world.com/rfsafety](http://www.mvg-world.com/rfsafety)

