

EME Wide NEW

A Wideband Field Meter to Monitor and Record EMF Exposure



- Real time display of Maximum, RMS or Time/Spatial average of isotropic field value
- 0.35 V/m sensitivity
- User definable alarm thresholds
- Data storage Software

Main features

User profile

- Workers near antennas, including installers, maintenance workers, broadcasters, and cellular carrier employees: for the control of the compliance of the exposure level with the standards and safety perimeter definition
- Certification laboratory, regulatory body: for control and monitoring of the exposure in public or private locations and site certification

Measurement capabilities

- Continuous EM field level measurements

Frequency bands

- 100 KHz to 6.5 GHz

Related recommendations

- 2013/35/EU Directive
- ICNIRP
- FCC 96-326
- Safety Code 6
- Exposure thresholds are user-definable and can be adapted to any recommendation

Product Configuration

Software

- EME Wide Analysis Software

Equipment

- Case
- Optical cable
- USB adapter
- USB cable
- Battery charger
- USB key for software installation
- User manual
- Wood tripod

Services

- Calibration report
- Initial calibration
- Additional calibration
- Training
- Extended warranty

KEY FEATURES

> Measurements and results

- Isotropic or single axis (X, Y, Z) instantaneous field value
- Maximum, RMS or Time/Spatial average of isotropic field value
- Selectable unit (V/m, A/m, W/m²)
- Alarm function (buzzer) with programmable field threshold
- Measurements stored in a non-volatile memory (up to 20000 points)

> Equipment interfaces

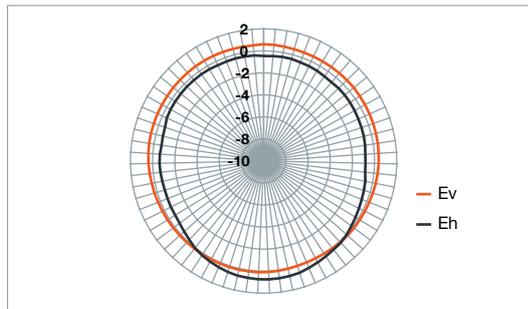
- Easy use from the 5 keys membrane keypad
- 7 cm (2.8") LCD display with led backlight
- Optical link for communication with PC and remote control
- Other information: date & time, temperature, battery charge status

> Battery and charge

- AA rechargeable NiMH battery
- External wall charger with set of plugs
- Automatic shutdown for very low battery or during recharge

High performance probe for accurate measurements

The EME Wide is equipped with a triaxial probe which guarantees measurement isotropy. Each device comes with a calibration report. The performance of this sensor has been optimized to ensure excellent isotropy.



A user friendly and flexible software

The EME Wide Analysis software enables two usages:

- **Importation mode** enables download and visualization of measurements recorded in the embedded memory of the device.
- **Real time mode** enables measurement start from the PC, visualization in real time of measurements, and exporting data to a file.

STEP 1: start the device (ON/OFF button) and plug it to the PC.

STEP 2: configure the internal alarm threshold, define measurement unit, clear memory, set window length time for RMS mean calculation, update date and time.

STEP 3: perform measurements. 3 types of measurements exist:

- **Screenshot:** recording from the probe at any time of each information indicated on the main screen of the probe (X, Y, Z, & total E-field, RMS, mean, spatial averaging, maximum value, temperature) into 200 memory cases max.
- **Recording:** start from the probe. Enables to perform 5 time measurements with 5 second period, containing 20 000 points max where X, Y, Z, total E-field, and temperature are saved.
- **Real time:** start from the PC. Enables to perform real time measurements with 1 second period, where X, Y, Z, total E-field, and temperature are saved.

STEP 4: import screenshot and recording measurements in the form of secure files using optical link and display the results.



EME Wide Applications in:



Telecommunications



Industry



Laboratory



Medical



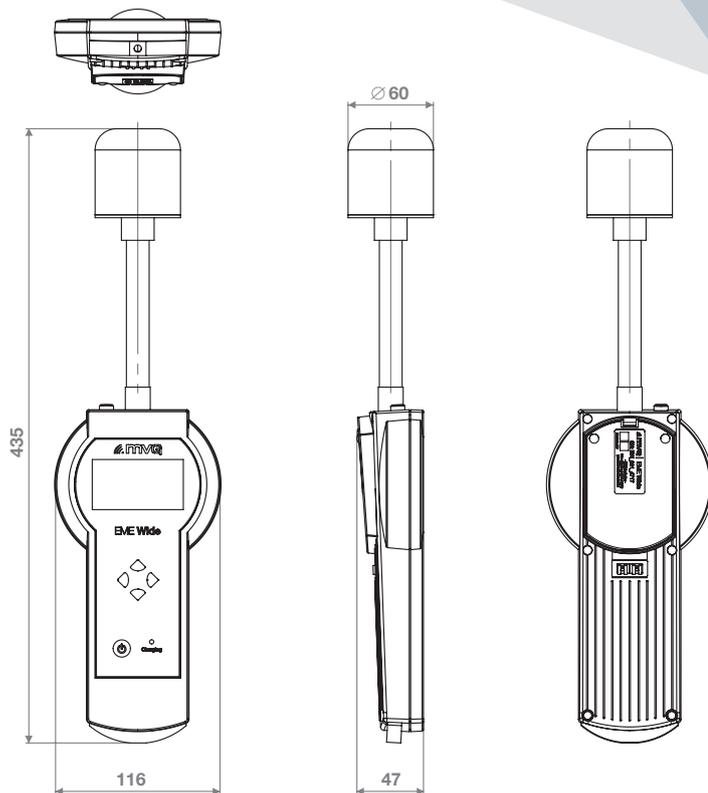
Radar equipment



Worker's safety



Public safety



Specification

TECHNICAL CHARACTERISTICS

| | |
|-----------------------|-------------------|
| Frequency range | 100 KHz - 6.5 GHz |
| Upper detection limit | 350 V/m |
| Lower detection limit | 0.35 V/m |
| Damage level (CW) | > 600 V/m |

MEASUREMENT UNCERTAINTY

| | |
|-----------------------------|--|
| Frequency response @ 10 V/m | ± 1 dB (100 MHz – 2.7 GHz) ± 1.5 dB (2.7 GHz – 6.5 GHz) |
| Axial isotropy @ 60 V/m | ± 0.5 dB @ 100 MHz |
| Linearity [2 V/m – 250 V/m] | ± 0.5 dB @ 100 MHz |
| Temperature sensor | ± 2°C |

MEASUREMENT CONFIGURATION

| | |
|-------------------------|--|
| Unit | V/m, A/m, W/m ² |
| Measurement mode | Isotropic or single axis (X, Y, Z) |
| Measurement type | RMS, Maximum, Time/Spatial Average |
| RMS average | From 1 to 10 minutes |
| Spatial average | Discrete |
| Screenshot capacity | 200 measurements MAX |
| Recording capacity | 20 000 measurements MAX |
| Min. measurement period | 5 sec for RECORDING mode 1 sec for REAL TIME mode |
| Alarm function | Single tone buzzer |

DISPLAY

| | |
|--------------|-------------------------------|
| Display type | Transflective LCD |
| Display size | 7 cm (2.8"), 128 x 64 dots |
| Backlight | White leds (Off or permanent) |
| Refresh rate | 200 ms |

INTERFACES

| | |
|-------------------|--|
| Optical interface | Serial, full duplex Optical/USB adapter for PC connection |
| Probe interface | Plug and play auto detection |

CONDITIONS FOR USE

| | |
|--------------------------------|------------------------------------|
| Battery | 4 x AA rechargeable NiMH |
| Battery charger | External wall charger |
| Operation time | > 48 hours (backlight off) |
| Charging time | 6 hours |
| Battery level (on display) | 5 voltage levels (bar graph) |
| Operating temperature/humidity | -10°C/+50°C, 5%/95% non condensing |
| Storage temperature | -20°C/+70°C |

MECHANICAL CHARACTERISTICS

| | |
|------------|-----------------------------|
| Dimensions | 435 x 116 x 60 mm (H, L, W) |
| Weight | 600 g |
| Protection | IP44 |

PC SOFTWARE

| | |
|---------------------------------|----------------------|
| Operating systems compatibility | Windows XP, 7, 8, 10 |
|---------------------------------|----------------------|



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