

# MonitEM

## Electromagnetic field monitoring

- 24/7 Monitoring of electromagnetic field levels and verification that they meet the safety standards established by the competent authorities.
- Any source, any sector: Cellular, Broadcast, 50/60 Hz Power Systems, Industry, Defense...
- Measurements can be published on the Internet.



Compliance  
with ITU K.83



Ready for 5G  
measurements



**24/7 EMF monitoring**

**Broadband measurements**  
from 10 Hz to 60 GHz  
depending on the field probe

**Control centre**  
Remote system & data management

**Easy to install**  
Solar Power + Wireless Communication

**IP66 protection rating**  
Resistant to harsh weather conditions:  
heavy rainfall, high temperatures, dust,...

**ITU-T K.83 / 5G ready**  
K.83 compliant and ready  
for the measurement of 5G bands

# MonitEM Application

Measurement of EMF radiation in:



INDUSTRY



TELECOMMUNICATIONS



ENERGY



DEFENSE



MEDICAL

How does it work?



EMISSION SOURCE



MONITEM



CONTROL CENTRE



## Technical specifications

<b>Sensor type</b>	Isotropic, RMS. Simultaneous 3-axis measurement	
<b>Field Probes</b>	See available field probes in next page	
<b>Sampling frequency</b>	500 ms	
<b>Averaging</b>	Custom sliding window (Default: 6 minutes)	
<b>Data retention period</b>	Online: from 1 to 60 minutes Offline: configurable from 1 second to 60 minutes	
<b>Memory</b>	Eeprom + 32GB MicroSD	
<b>Wireless communications</b>	3G/GPRS Modem	4G/3G/GPRS Modem
	Modem radiation rejection	
<b>Programmable alarms</b>	Field level, low battery, hibernation, opening, calibration, communication error, probe error, temperature	
<b>Operating log</b>	Temperature, communications, power supply, operating modes, etc.	
<b>Power supply</b>	3 models: MonitEM Solar: Solar + battery MonitEM AC: 110 - 220V (50 - 60 Hz) MonitEM Hybrid: Solar + battery + AC	
<b>Battery life</b>	>20 days (without sun; <b>sample @0.5 s</b> ; 1 daily transmission, No alarms)	
<b>Watchdog</b>	Smart power control unit	
<b>Temperature</b>	- 25 °C to + 60 °C	
<b>Dimensions</b>	253 mm x 292 mm x 385 mm	
<b>Weight</b>	3.6 kg (including solar panel)	
<b>Environmental protection</b>	IP66	
<b>Installation kits</b>	Wall, mast or tripod	
<b>GPS</b>	High-sensitivity WGS84 device (built-in)	

## Control Centre (optional)

<b>Platform</b>	On a server with Internet access
<b>Administration interface</b>	Web browser
<b>Public interface</b>	Web browser
<b>Alarms</b>	Receives and manages alarms from installed MonitEM units
<b>Customization</b>	Language, client's logo, general information
<b>Reports</b>	Automatic PDF, CSV reports sent by e-mail
<b>Compatibility</b>	Management of data from MonitEM units and portable SMP2 device

## Additional services

### Hosted Control Centre:

Eliminate infrastructure and server costs by using Wavecontrol's cloud server

### Warranty extension:

The 2-year standard warranty can be extended to 3, 4 or 5 years.

### Calibration plans:

Plan future calibrations now for 24 and 48 months with further discounts.

### Update plans:

Keep the system up to date with the latest firmware versions and software development.

### Training courses:

EMF theory and practical sessions at Wavecontrol or the client's offices.

**WAVECONTROL**

Safety, Quality, Service

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Product specifications and descriptions in this document subject to change without notice

# MonitEM

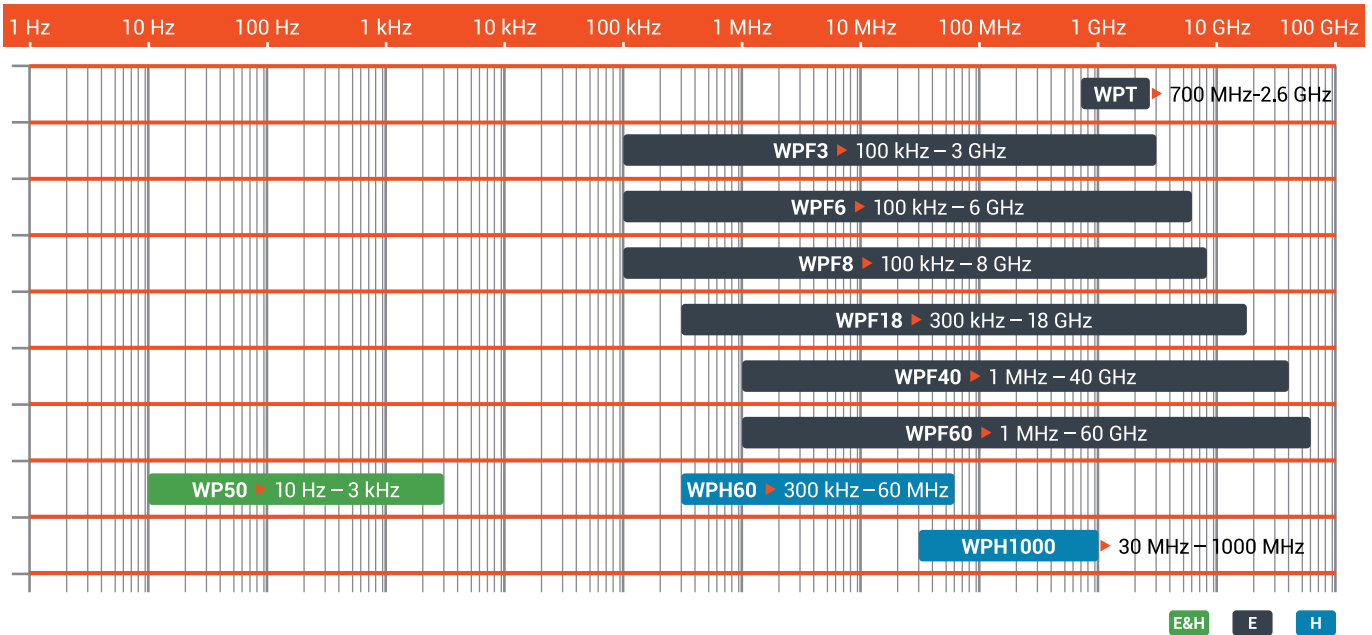
## Compatible field probes

Wavecontrol provides a full range of E-Field, H-Field and E&H Field probes covering different frequency ranges starting at 10 Hz and up to 60 GHz.

Probes are plug and play and come with an individual ISO 17025 accredited calibration. All sensors are isotropic, RMS and highly accurate.



## Frequency range of compatible field probes



## Control Center (optional)

MonitEM devices can be optionally used together with a web server using software that is unique on the market and allows:

- Management and configuration of equipment
- Data reception, consultation and storage
- Report generation and automatic delivery
- Display of photographs and diagrams
- User friendly, with Google Maps positioning

