

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 90 GHz
depending on the field probe

CONTROL CENTER ———•
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 Applications. Measurement of EMF radiation in:



Telecommunications



Industry



Energy



Defense



Medical

HOW DOES IT WORK?



Emission Source



MonitEM



Control Center



Technical specifications

Sensor type		Isotropic, RMS. Simultaneous 3-axes measurement	
Field Probes		See available field probes on the next page	
Sampling frequency		500 ms	
Averaging		Custom sliding window (Default: 6 minutes)	
Data retention period		Online: from 1 to 60 minutes Offline: configurable from 1 second to 60 minutes	
Memory		Eeprom + MicroSD	
Wireless communications		3G/GPRS Modem	4G/3G/GPRS Modem
Power supply	Solar	Part # WMT0011	Part # WMT0021
	AC	Part # WMT0012	Part # WMT0022
	Solar + AC	Part # WMT0013	Part # WMT0023
Operating log		Temperature, communications, power supply, operating modes, etc.	
Battery life		>20 days (without sun; sample @0.5 s; 1 daily transmission, No alarms)	
Temperature		- 25 °C to + 60 °C	
Dimensions		253 mm x 292 mm x 385 mm	
Weight		3.6 kg (including solar panel)	
Environmental protection		IP66	
Installation kits		Wall, mast or tripod	
GPS		High-sensitivity WGS84 device (built-in)	

Control Center (optional)

Platform	On a server with Internet access
Administration interface	Web browser
Public interface	Web browser
Alarms	Receives and manages alarms from installed MonitEM units
Customization	Language, client's logo, general information
Reports	Automatic PDF, CSV reports sent by e-mail
Compatibility	Management of data from MonitEM units and portable SMP2/SMP3 device

Additional services

Hosted Control Center:

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.

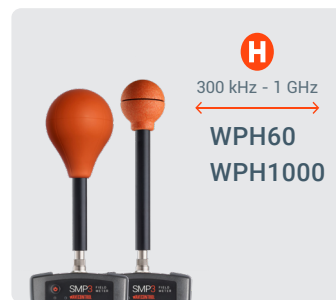
Training courses:

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

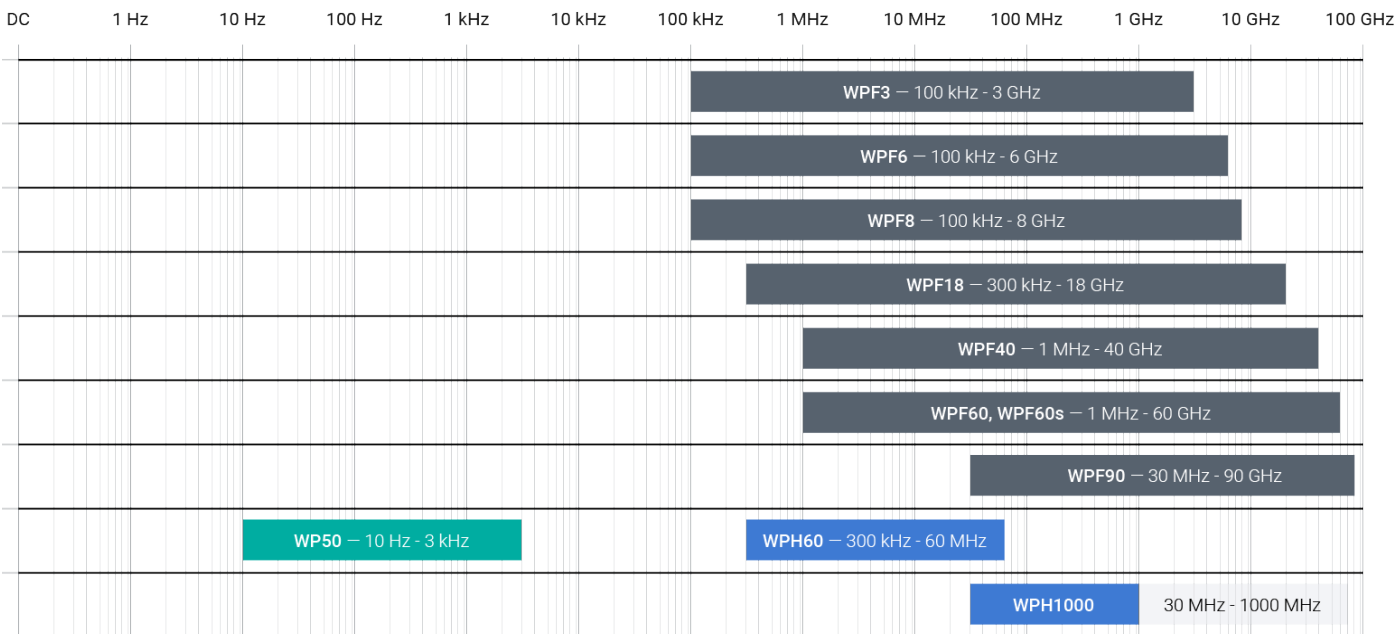
Compatible field probes

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 90 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



● Magnetic Field - H ● Electric and Magnetic Field - E&M ● Electric Field - E

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

