

# Monit**EM**-Lab



## Indoors electromagnetic field monitoring

- Indoors 24/7 monitoring of electromagnetic field levels.
- Used in Labs, Manufacturing and other facilities to check emitters performance, warn of unwanted emissions and verify human safety levels.
- Measurements can be locally stored or remotely managed.



Compliance  
with ITU K.83



Ready for 5G  
measurements

- 24/7 EMF MONITORING**  
of electromagnetic fields  
in facilities, laboratories, etc.
- BROADBAND MEASUREMENTS**  
from 100 kHz to 90 GHz  
depending on the field probe
- CONTROL CENTER**  
remote system & data management
- ETHERNET COMMUNICATION**
- EASY TO INSTALL**  
stand-alone or mount to a wall
- VISUAL AND AUDIBLE ALARMS**  
Real-time alarms
- ITU-T K.83 / 5G READY**  
K.83 compliant and ready  
for the monitoring of 5G bands



**Visual alarm**

## MonitEM-Lab **Applications.** Measurement of EMF radiation in:



Telecommunications



Laboratories



Radar/Aerospace



Industry



Medical

## HOW DOES IT WORK?



Emission Source



MonitEM-Lab



Control Center



## Technical specifications

<b>Sensor type</b>	Isotropic, RMS. Simultaneous 3-axes measurement
<b>Probe system</b>	Interchangeable, 100 kHz to 90 GHz
<b>Sampling frequency</b>	500 ms
<b>Averaging</b>	6-minute or custom sliding window
<b>Data retention period</b>	Online: from 1 to 60 minutes Offline: configurable from 1 second to 60 minutes
<b>Memory</b>	Eeprom + MicroSD card
<b>Communications</b>	Ethernet
<b>Operating log</b>	Temperature, communications, power supply, operating modes, etc.
<b>Power supply</b>	AC 110 - 220V
<b>Watchdog</b>	Smart power control unit with ON/OFF button
<b>Dimensions</b>	445 x Ø 120 mm (17.5 x Ø 4.72 in.)
<b>Weight</b>	2.4 kg
<b>Environmental protection</b>	Not yet available
<b>Installation kits</b>	Wall, mast or tripod
<b>Alarms</b>	Audible and visual alarms (configurable). The sound can be stopped by an external switch.

## Control Center (optional)

<b>Platform</b>	On server with internet/intranet access
<b>Administration interface</b>	Web browser
<b>Public interface</b>	Web browser
<b>Remote alarms</b>	Field level, calibration, communication error, probe error, temperature
<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/SMP3 device

## Additional services

### 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:

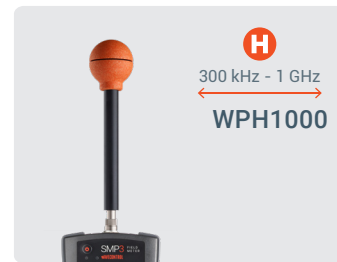
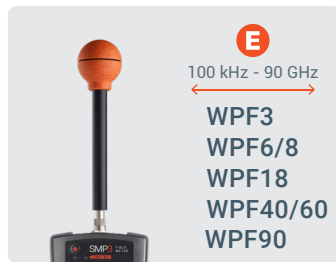
EMF theory and practical sessions at Wavecontrol or the client's offices.

# MonitEM-Lab

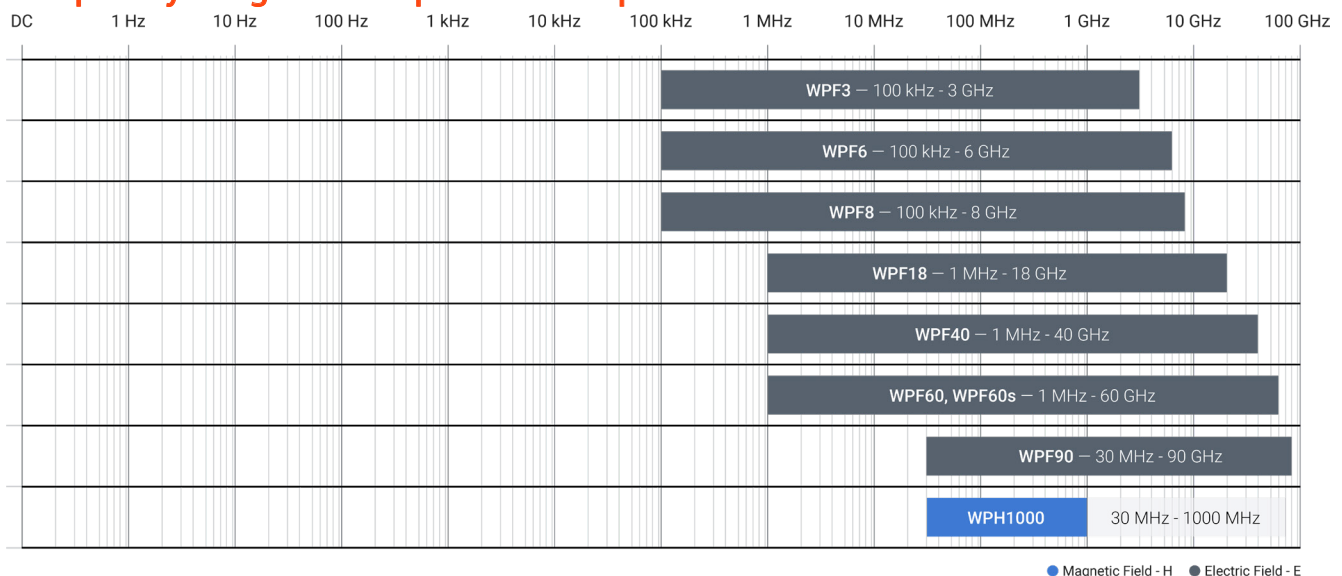
## Compatible field probes

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



## 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

