

# MONITEM



## Continuous measurement of electromagnetic fields

A permanent monitoring system that allows on-going scrutiny of the emission levels of any source of electromagnetic radiation (mobile telephone antennas, WiFi, high-voltage power lines, etc.) and verification that they meet the safety standards established by the competent authorities and regulations in each country. The measurements taken can be published via the Internet to the different stakeholder communities.



Compliance with ITU K.83



Click here to see live demo



### **CONTINUOUS MONITORING (24/365)**

of electromagnetic fields in specific locations (cities, schools, hospitals, etc.).

### **BROADBAND MEASUREMENT**

that allows economies of scale in deployment of monitoring networks to cover large areas.

### **CONTROL CENTRE**

with web interface for remote management of monitoring stations and display of electromagnetic field levels on any computer with Internet connection.

### **EASY TO INSTALL**

anywhere. Autonomy ensured by solar power supply and wireless communication.

### **RESISTANT TO HARSH WEATHER CONDITIONS**

thanks to IP66 protective casing, making it resistant to heavy rainfall, high temperatures, dust, etc.

### **COMPLIES WITH ITU-T K.83 RECOMMENDATION**

which specifies standards for implementation of networks for continuous measurement of electromagnetic emissions.

## MONITEM Applications. Measurement of EMF radiation in:



Industry



Telecommunications



Powerline



Defense



Medical

## HOW DOES IT WORK?



Emission Source



MonitEM



Online Control Centre



### Technical specifications

<b>Sensor type</b>	Isotropic, RMS. Simultaneous 3-axis measurement
<b>Probe system</b>	Interchangeable, 10 Hz to 18 GHz
<b>Sampling frequency</b>	500 ms
<b>Averaging</b>	6-minute sliding window
<b>Data retention period</b>	Online: 30, 60 minutes Offline: configurable from 1 second to 60 minutes
<b>Memory</b>	Eeprom + MicroSD (configurable size)
<b>Wireless communications</b>	GPRS modem GPRS/3G (modem online) 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>	AC 110-220V 12V DC, Solar Panel, Battery
<b>Battery life</b>	> 10 days (without sun)
<b>Watchdog</b>	Smart power control unit
<b>Dimensions</b>	253mmx292mmx385mm
<b>Weight</b>	3.6 kg (including solar panel)
<b>Environmental protection</b>	IP66 / Installation kits
<b>Installation kits</b>	Wall, mast or tripod
<b>GPS</b>	High-sensitivity WGS84 device (built-in)

### Control centre

<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 SMP 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.