



Monitoring electromagnetic fields (EMF) in modern connected societies with advanced digital services is crucial to ensure safety and regulatory compliance



NEW

Monit**EM**-IoT

Next Generation of IoT sensors to
MONITOR HUMAN EXPOSURE
to electromagnetic fields

Continuous RF
Monitoring 24/7

Real Time
Alarms

Management
& Control

Visualization





Smart Cities, Industry 4.0, telecommunications, and many other connected services rely on various wireless communication technologies that emit electromagnetic fields (EMFs). While such technologies are essential for any modern society, it is important to take care of human exposure to EMFs.

Wavecontrol new solution, **MonitEM-IoT**, allows for a **permanent assessment of EMF human exposure**, ensuring that technological advancements do not come at the expense of public safety.

Easy to install and Setup

- Several mounting options
- Start up through App
- Compact size

Control Centre

- Setting monitoring stations
- Manage exposure alarms
- Automatic reporting
- Visualization (admin/public)

No Maintenance

A battery-powered device with long-lasting batteries, requiring no AC wiring or solar panels for operation. No maintenance is required during the estimated lifetime of the batteries (3 years).

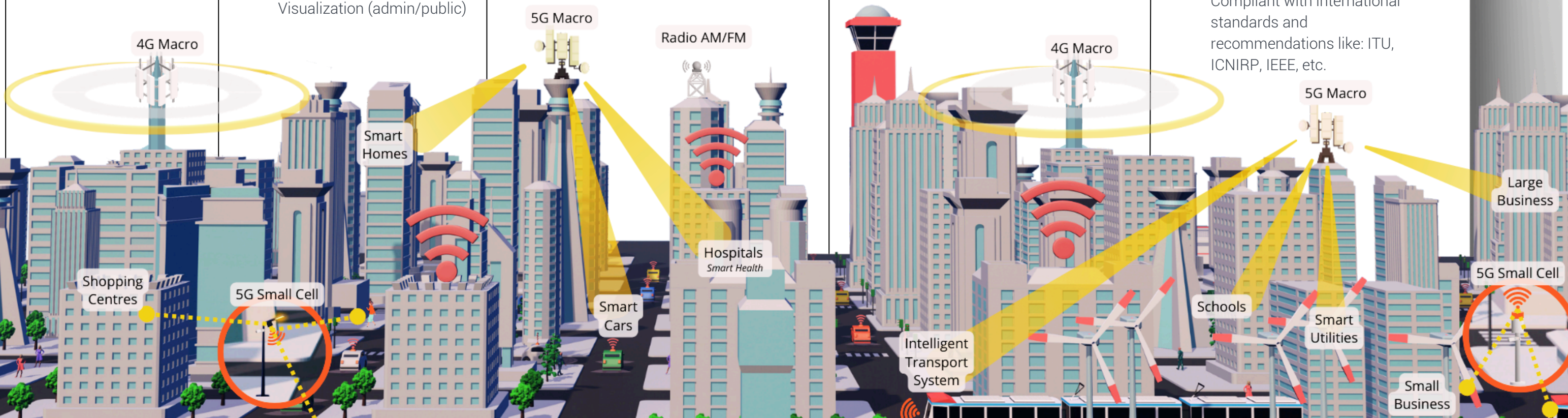
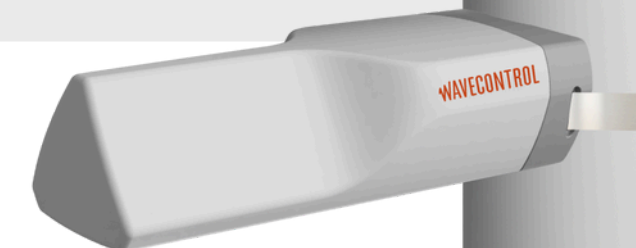
IoT/PoE connectivity

Wireless with LTE-M/NB-IoT or via Ethernet cable
Ready for large scale projects

According to International standards

Compliant with international standards and recommendations like: ITU, ICNIRP, IEEE, etc.

Exposure Measurements	Real Time alarms	Out-of-the-Box
<ul style="list-style-type: none"> Isotropic sensors. Electric field up to 8 GHz 	<ul style="list-style-type: none"> Continuous 24/7 RF monitoring. Alarms management. 	<ul style="list-style-type: none"> Compact size. Easy to install. No maintenance.



Specifications

Models

Model	MonitEM-IoT-N-RF8	MonitEM-IoT-E-RF8
Part Number	WMT0200	WMT0201

Performance

Frequency range	500 kHz - 8 GHz	5 MHz - 8 GHz
Sensor type	Isotropic with diode technology for electric field	
Type of frequency response	Flat	
Measurement range	0.7 - 250 V/m	
Frequency response	± 2.5 dB (1 MHz – 6 GHz)	± 2.5 dB (10 MHz – 6 GHz)

Measurements

Measurement frequency	Configurable by user
Time averaging	6 min/30 min – configurable by user
Internal memory	>1 month in case of no communication
Programmable alarms	Field level, low battery, communication error

Power & Communications

Power	Battery (battery life >3 years)	Power Over Ethernet (PoE)
Local setup	NFC with smart phone App	

Data Management

Wavecontrol Control Center	Settings, control, alarm management, visualization, reports, and communication Compatible with: MonitEM-IoT, MonitEM, MonitEM-Lab, SMP3 meter
Integration	Compatible with Smart City platforms

Compliance

	According to international standards and recommendations on human exposure to electromagnetic fields: ITU-T K83, ICNIRP2020
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General

Temperature range	- 20 °C to 50 °C
Dimensions & Weight	24.0 x 7.5 x 6.0 cm (9.45 x 2.95 x 2.36 in) - 550 g (1.21 lb)
Environmental protection	IP65
Relative humidity	< 95 % (non-condensing)
Altitude	< 2000 m
Pollution degree	Pollution degree 2
Installation kits	Wall, mast or tripod

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