

SMP2



Electromagnetic Field Meter



3 INSTRUMENTS IN 1:
Static field measurement, Spectrum
analysis & Broadband field meter



FFT-BASED TIME-DOMAIN
Spectrum analysis



EMF WORKER'S SAFETY
EU Directive, FCC, SC6 (2015), etc.



BROADBAND MEASUREMENT
(0 Hz - 60 GHz)



Ready for 5G
monitoring



Field probe range
from 0 Hz to 60 GHz

Spectrum analysis [FFT]
(up to 400 kHz)

Broadband measurements
(0 Hz - 60 GHz)

Field values:
X, Y, Z and Total

Graphical display
in real time

Dynamic menu

Weighted Peak Method (WPM)
Real time comparison with limits

> 1 million registers
SQL data base

Screenshot function

Fibre optics (optional)

USB

Available field probes



SMP2 Applications



Industry



Telecommunications



Powerline



Railway



Medical



Labs



Aeronautical



Worker's safety



Defense



Technical Specifications

Versions	Broadband	For broadband measurements using the following probes: WPFx, WPT, WP50, WPH60 and WPH1000.
	Selective	For frequency selective measurements from 0 to 400 kHz using WP400, WP400-3 and WPH-DC.
	Dual	For both kind of measurements using all field probes.
Field probes		Automatic detection and recognition
Broadband		0 Hz – 60 GHz (depending on field probe)
Spectrum analysis		up to 400 kHz
Weighted Peak Method		1 Hz – 400 kHz (Real time WPM for direct comparison with limits)
Readout values		Total field (instantaneous, max., min. and average) Field components (X, Y, Z)
E Field units		V/m, kV/m, $\mu\text{W}/\text{cm}^2$, mW/cm^2 , W/m^2 , %
H Field units		nT, μT , mT, T, A/m, %, mG
Log time		Configurable (from 0.5 s to 6 min)
Average modes		Fixed o Sliding, according to international standards
Average intervals		10 s, 15 s, 30 s, 1 min, 2 min, 5 min, 6 min, 10 min, 15 min, 30 min
Schedule measurement		Customized (up to 24 hours)
Memory capacity		More than 1 million samples
Data downloading		Mini-USB and Fibre Optics
Firmware updating		Mini-USB
Alarm		2400 Hz audible signal (adjustable threshold)
Display type		Color transmissive TFT (480 x 272 pixels)
GPS (optional)		Built-in u-blox 7 (56 independent tracking channels)
Battery		Internal rechargeable Li-ion
Autonomy		> 14 hours (with broadband probes) > 6 hours (with selective probes)
Temperature range		-10 °C to +50 °C
Size		100 x 215 x 40 mm
Weight		575 g

SMP2 included accessories:

- "SMP2 Reader" PC software: Compatible with Windows 7 or later versions.
- SMP2 probes carrying case.
- USB cable.
- Charger.

SMP2 optional accessories:

- Non-reflective wooden tripod (including transport cover).
- Internal embedded GPS.
- Fiber optics interface.
- Vehicle DC charger.
- SMP2 protective pouch.
- SMP2 probe extension cable.

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

WPF18 Field Probe

300 kHz - 18 GHz



- High sensitivity from 0.5 V/m
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards

300 kHz - 18 GHz

E

RMS

ISOTROPIC



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, AM, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.



Technical Specifications

	WPF18	WPF18-HP High Power version
Frequency range	300 kHz - 18 GHz	
Sensor type	Isotropic RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.5 - 250 V/m (CW) 0.5 - 30 V/m (RMS)	0.5 - 1000 V/m (CW) 0.5 - 30 V/m (RMS)
Dynamic range	54 dB	66 dB
Sensitivity	0.5 V/m	
Resolution	0.1 V/m (from 10 V/m to 250 V/m)	
Frequency response	± 2 dB (1 MHz - 5 GHz) + 0 / - 6 dB (5 GHz - 18 GHz)	
Linearity	± 0.5 dB (1 V/m - 150 V/m)	
Isotropic deviation	± 1.2 dB (up to 10 GHz) ± 3 dB (10 GHz - 18 GHz)	
Calibration	ISO 17025 accredited calibration (ILAC)	
Calibration period	24 months (recommended)	
Temperature range	- 20 °C to 50 °C	
Temperature response	+ 0.1 / - 1 dB (related to 20 °C)	
Dimensions	28.4 cm x 6 cm Ø	
Weight	95 g	
Attenuation at 50/60 Hz	> 60 dB	

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

Compatible with **SMP2**, **MonitEM**, **MapEM**

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