

SMP2



Electromagnetic Field Meter

2X1
2 INSTRUMENTS IN 1:
Spectrum analysis &
Broadband field meter

FFT-BASED TIME-DOMAIN
Spectrum analysis

E.U.
EMF WORKER'S SAFETY
2013/35/EU Directive

BROADBAND MEASUREMENT
(1 Hz - 40 GHz)

- Field probe range
from 1 Hz to 40 GHz
- Spectrum analysis [FFT]
(1 Hz - 400 kHz)
- Broadband measurements
(1 Hz - 40 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

E
100 kHz - 40 GHz
WPF3
WPF6/8
WPF18
WPF40

E H
1 Hz - 400 kHz
WP400
WP400-3
WP50

H
300 kHz - 1 GHz
WPH60
WPH1000

E
Mobile Bands
WPT

SMP2 Applications. Measurement of EMF in:



Industry



Telecommunications



Powerline



Railway



Medical



Labs



Aeronautical



Worker's safety



Defense



Technical Specifications

Versions	Broadband, Selective and Dual
Field probes	Automatic detection and recognition
Broadband	1 Hz – 40 GHz (depending on field probe)
Spectrum analysis	1 Hz – 400 kHz (FFT)
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	Sliding window, arithmetic and normative averaging 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 2-probes carrying case.
- USB cable.
- DC charger.

SMP2 optional accessories:

- Non-reflective wooden tripod (including transport cover).
- Internal embedded GPS.
- Fiber optics interface.
- Vehicle DC charger.
- SMP2 3-probes carrying case.
- SMP2 protective pouch.

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