

SMP2



Portable Electromagnetic Field Monitoring System



2 INSTRUMENTS IN 1:
Spectrum analysis &
Broadband field meter



FFT - Based Time-Domain
Spectrum analysis



EMF WORKER'S SAFETY
2013/35/EU Directive



BROADBAND MEASUREMENT
(1 Hz - 18 GHz)

Field probe range
from 1 Hz to 18 GHz

Built-in GPS
High performance

Spectrum analysis [FFT]
(1 Hz - 400 kHz)

Broadband measurements
(1 Hz - 18 GHz)

Field values:
X, Y, Z and Total

Graphical display
in real time

Dynamic menu

Weighted Peak Method (WPM)
Real time comparison with limits

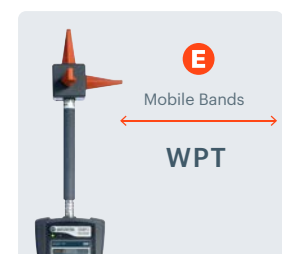
> 1 million registers
SQL data base

Screenshot function

USB and fibre optics



Available field probes



SMP2 Applications. Measurement of EMF in:



Industry



Telecommunications



Poweline



Railway



Medical



Labs



Aeronautical



Worker's safety



Defense



Technical Specifications



Field probes	Automatic detection and recognition
Broadband	1 Hz - 18 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, %
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
Memory capacity	4 GB (more than 1 million registers)
Data downloading	Mini-USB and Fibre Optics
Firmware updating	Mini-USB and Fibre Optics
Alarm	2400 Hz audible signal (adjustable threshold)
Display type	Color transmissive TFT (480 x 272 pixels)
GPS	Built-in u-blox 7 (56 independent tracking channels)
Battery	Internal rechargeable Li-ion
Autonomy	> 14 hours (with broadband probes)
Temperature range	-10°C to +50 °C
Size	100 x 215 x 40 mm
Weight	570 g