

# SMP2



## Portable Electromagnetic Field Monitoring System

**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 - 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



Powerline



Railway



Medical



Labs



Aeronautical



Worker's safety



Defense



## Technical Specifications



<b>Field probes</b>	Automatic detection and recognition
<b>Broadband</b>	1 Hz - 18 GHz (depending on field probe)
<b>Spectrum analysis</b>	1 Hz - 400 kHz (FFT)
<b>Weighted Peak Method</b>	1 Hz - 400 kHz (Real time WPM for direct comparison with limits)
<b>Readout values</b>	Total field (instantaneous, max., min. and average) Field components (X, Y, Z)
<b>E Field units</b>	V/m, kV/m, $\mu\text{W}/\text{cm}^2$ , $\text{mW}/\text{cm}^2$ , $\text{W}/\text{m}^2$ , %
<b>H Field units</b>	nT, $\mu\text{T}$ , mT, T, A/m, %, mG
<b>Log time</b>	Configurable (from 0,5 s to 6 min)
<b>Average modes</b>	Sliding window, arithmetic and normative averaging according to international standards
<b>Average intervals</b>	10 s, 15 s, 30 s, 1 min, 2 min, 5 min, 6 min, 10 min, 15 min, 30 min
<b>Schedule measurement</b>	customized (up to 24 hours)
<b>Memory capacity</b>	4 GB (more than 1 million registers)
<b>Data downloading</b>	Mini-USB and Fibre Optics
<b>Firmware updating</b>	Mini-USB
<b>Alarm</b>	2400 Hz audible signal (adjustable threshold)
<b>Display type</b>	Color transmissive TFT (480 x 272 pixels)
<b>GPS</b>	Built-in u-blox 7 (56 independent tracking channels)
<b>Battery</b>	Internal rechargeable Li-ion
<b>Autonomy</b>	> 14 hours (with broadband probes)
<b>Temperature range</b>	-10°C to +50 °C
<b>Size</b>	100 x 215 x 40 mm
<b>Weight</b>	575 g