



## WP400 Probe | 1 Hz - 400 kHz



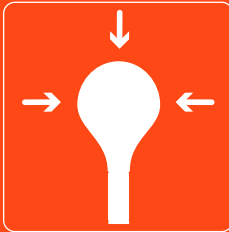
- Electric & Magnetic field measurement
- Isotropic & True RMS measurement
- Spectrum analysis probe
- Measurements in accordance with International Standards
- 100 cm<sup>2</sup> sensor

1 Hz - 400 kHz

E & H

RMS

ISOTROPIC



**Power grid**  
Measurement of the exposure to EM fields at transformer stations and high-voltage lines.



**Railway**  
Measurement of EM fields in trains and in the railway environment with respect to human exposure.



**Industry**  
Assessment of workers' exposure to EM fields in all kind of manufacturing facilities.



### Technical Specifications

	Electric Field	Magnetic Field
<b>Sensor type</b>	Isotropic patented electrodes	
<b>Frequency range</b>	1 Hz – 400 kHz	1 Hz – 400 kHz
<b>Field Strength Mode</b>		
<b>Measurement range</b>	1 V/m to 100 kV/m	50 nT - 30 mT @ 50 Hz 50 nT - 10 mT (100 Hz - 10 kHz) · Upper range increases linearly with decreasing frequency below 100 Hz. · Upper range decreases linearly with increasing frequency above 10 kHz.
<b>Graphical display</b>	RMS, Axis Values, AVG, MAX, MIN, PEAK, RMS time graph	
<b>Peak value</b>	digital realtime	digital realtime
<b>Resolution</b>	< 0.4 mV/m above 8 Hz	< 0.1 nT (at 50 Hz) and < 0.05 nT above 100 Hz
<b>Noise level</b>	< 1 V/m (10 Hz - 400 kHz)	< 50 nT (10 Hz – 400 kHz)
<b>Weighted Peak Method mode</b>		
<b>Measurement range</b>	200 % (min)	200 % (min)
<b>Graphical display</b>	PEAK (%), AXIS VALUES (%), AVG (%), MAX (%), MIN (%), RMS (%), Time graph	
<b>Standards/Limits</b>	EU Directive 2013/35/EU, IEEE, ICNIRP, BGV B11. Easy software update to future modifications and to other limits.	



WP400\_EN\_2005\_v2.3

# WP400 Probe

## 1 Hz - 400 kHz



### Technical Specifications

	Electric Field	Magnetic Field
<b>FFT Mode</b>		
<b>Measurement range</b>	4 mV/m – 100 kV/m	0.5 nT - 30 mT @ 50 Hz 0.5 nT - 10 mT (100 Hz - 10 kHz) · Upper range increases linearly with decreasing frequency below 100 Hz. · Upper range decreases linearly with increasing frequency above 10 kHz.
<b>Graphical display</b>	Frequency analysis, total field and axis	
<b>SPAN (Resolution)</b>	400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)	
<b>Noise level</b>	< 4 mV/m	< 0.5 nT
<b>FFT</b>	1024 point FFT	
<b>General specifications</b>		
<b>Isotropy</b>	± 5 %	± 4 %
<b>Typical Uncertainty (1)</b>	0.67 dB	0.60 dB
<b>Temperature deviation [typ. At 50/60 Hz] (referred to 25 °C, 50 % relative humidity)</b>	- 0.005 dB/°C (- 15 °C to 40 °C)	- 0.003 dB/°C (- 15 °C to 25 °C) + 0.003 dB/°C (25 °C to 40 °C)
<b>Damage level</b>	> 200 kV/m	> 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz
<b>Linearity</b>	± 1 % (typ.) ± 2 % (max.)	
<b>Weight</b>	220 g	
<b>Probe size</b>	280 mm x 128 mm Ø	

(1) Total, counting isotropy, temperature deviation, resolution, frequency response, linearity, repeatability.



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