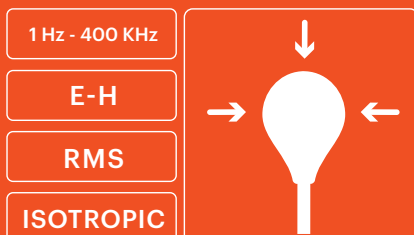


WP400 Probe

1 Hz - 400 kHz



- Electric & Magnetic field measurement
- Isotropic & True RMS measurement
- Spectrum analysis probe
- Measurements in accordance with International Standards



Power grid

Spot measurement of E and H at transformer stations and high-voltage lines



Railway

Measurement of E and H fields generated in trains or near railway facilities



Industry

Measurement in manufacturing facilities with strong electromagnetic fields to ensure worker's safety



Technical Specifications (extended version)

	Electric Field	Magnetic Field
Sensor type	Patented electrode	Patented electrode
Field Strength Mode		
Frequency range	1 Hz – 400 kHz	1 Hz – 400 kHz
RMS averaging time	1 sec	1 sec
Peak value	digital realtime	digital realtime
Measurement range	1 V/m to 100 kV/m	50 nT - 10 mT (100 Hz -10 kHz see graph) · Increase linearly with decreasing frequency below 100 Hz · Decrease linearly with increasing frequency above 10 kHz
Resolution	< 0.4 mV/m above 8 Hz	< 0.1 nT (at 50 Hz) and < 0.05 nT above 100 Hz
Temperature deviation (typ. At 60 Hz) (referred to 25°C, 50% relative himidity)	– 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)
Isotropy	± 5 %	± 4 %
Damage level	> 200 kV/m	> 2000 mT up to 60 Hz This limit decreases linearly with increasing frequency above 60 Hz
Noise level	< 1 V/m (10 Hz - 400 kHz)	< 50 nT (10 Hz – 400 kHz)
Typical Uncertainty	0.67 dB	0.60 dB
Graphical display	RMS, AXIS VALUES, AVG, MAX, MIN, PEAK, Time graphic	
WPM Mode		
Frequency range	1 Hz – 400 kHz	1 Hz – 400 kHz
Standards	ICNIRP 2010 – ICNIRP 98 – Directive 2013/35/EU – BGV B11 – China	
Measurement overload limit	0.5 % - 200 %	0.5 % - 200 %
Typical Uncertainty	0.67 dB	0.60 dB
Graphical display	%, AXIS VALUES (%), AVG (%), MAX (%), MIN (%), PEAK (%), Time graphic	

WP400_EX_0516_EN_v11

WP400 Probe

1 Hz - 400 kHz



Technical Specifications (extended version)

	Electric Field		Magnetic Field	
FFT Mode				
Frequency range	1 Hz – 400 kHz			
SPAN (Resolution)	400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)			
Resolution by SPAN	1 Hz	10 Hz	100 Hz	1 kHz
Detection	RMS, PEAK, AXIS (X, Y, Z)		RMS, PEAK, AXIS (X, Y, Z)	
Measurement range	4 mV/m – 100 kV/m		0.5 nT - 10 mT (100 Hz-10 kHz see graph) Increase linearly with decreasing frequency below 100 Hz Decrease linearly with increasing frequency above 10 kHz	
Noise level	< 4 mV/m		< 0.5 nT	
Sampling resolution	1024			
Graphical display	Frequency analysis			
High Pass Filters				
HPF @10 Hz	– 3 dB @ 10 Hz			
HPF @25 Hz	– 3 dB @ 25 Hz			
HPF @100 Hz	– 3 dB @ 100 Hz and rejection > – 18 dBb @ 50 Hz			
Memory				
Maximum measurement	Up to 1000			
Maximum samples	Up to 1 million			
Maximum FFT	Up to 1000			
General Specifications				
Battery Broadband measurement	> 15 h			
Battery Selective measurement	> 4.5 h			
Weight	SMP2 = 600 g WP400 = 220 g			
Size (with probe)	475 x 120 x 120 mm			

