WP10M Probe
1 Hz - 10 MHz

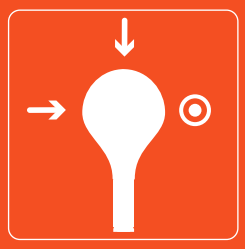
- Electric & Magnetic field measurement
- Isotropic & True RMS measurement
- Spectrum analysis probe
- Measurements in accordance with International Standards
- 100 cm² sensor

1 Hz - 10 MHz

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
Part Number	WWP2401	
Sensor type	Patented sensor consisting of isotropic 100 cm² coils and embedded electrodes	
Frequency range	Full Band: 1 Hz – 10 MHz Low Band: 1 Hz – 400 kHz	
Field Strength Mode		
Measurement range	2 V/m – 100 kV/m (up to 80 kHz) 2 V/m – 47 kV/m (80 kHz - 10 MHz)	100 nT – 47 mT (@ 50 Hz) 100 nT – 4.7 mT (500 Hz – 10 MHz) · Upper range increases linearly with decreasing frequency below 500 Hz.
Graphical display	RMS, Axis Values, AVG, MAX, MIN, PEAK, RMS time graph	
Peak value	digital realtime	digital realtime
Resolution	< 0.4 mV/m above 8 Hz	< 0.1 nT (at 50 Hz) and < 0.05 nT above 100 Hz
Noise level (10 Hz – 100 Hz) (100 Hz – 10 MHz)	 < 4 V/m < 2 V/m	 < 500 nT < 100 nT* *with HPF = 100 Hz.
Weighted Peak Method mode		
Measurement range	200 % (min)	200 % (min)
Graphical display	PEAK (%), AXIS VALUES (%), AVG (%), MAX (%), MIN (%), RMS (%), Time graph	
Standards/Limits	EU Directive 2013/35/EU, IEEE, ICNIRP, BGV B11. Easy software update to future modifications and to other limits.	



WAVECONTROL
Safety, Quality, Service

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WP10M Probe
1 Hz - 10 MHz



Technical Specifications

	Electric Field	Magnetic Field
FFT Mode		
Measurement range	2 mV/m – 100 kV/m (up to 80 kHz) 2 mV/m – 47 kV/m (80 kHz to 10 MHz)	1 nT - 47 mT (@ 50 Hz) 1 nT – 4.7 mT (500 Hz – 10 MHz) · Upper range increases linearly with decreasing frequency below 500 Hz.
Graphical display	Frequency analysis, total field and axes	
SPAN (Frequency resolution)	Full Band: 10 kHz (25 Hz), 100 kHz (250 Hz), 1 MHz (2.5 kHz), 10 MHz (25 kHz) Low Band: 400 Hz (1 Hz), 4 kHz (10 Hz), 40 kHz (100 Hz), 400 kHz (1 kHz)	
Noise level	< 2 mV/m	< 1 nT
FFT	1024 point FFT	
General specifications		
Isotropy	± 1% 1 Hz – 1 MHz ±3% 1 MHz – 10 MHz	±0.5 % all frequencies
Frequency Response	50 Hz – 60 Hz: ±1% 10 Hz – 100 kHz: ±3% 100 kHz – 2 MHz: ±4% 2 MHz – 10 MHz: ±16%	50 Hz – 60 Hz: ±1% 10 Hz – 400 kHz: ±3% 100 kHz – 5 MHz: ±7% 5 MHz – 10 MHz: ±20%
Linearity	± 1 % (typ.) ± 2 % (max.)	
Temperature deviation [typ. at 50/60 Hz] (referred to 25 °C, 50 % relative humidity)	- 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)
Typical Expanded Uncertainty (1)	50 Hz – 60 Hz: ±2.9% 10 Hz – 100 kHz: ±4.3% 100 kHz – 2 MHz: ±5.3% 2 MHz – 10 MHz: ±18.6%	50 Hz – 60 Hz: ±2.2% 10 Hz – 100 kHz: ±3.9% 100 kHz – 2 MHz: ±8.1% 2 MHz – 10 MHz: ±22.7%
Sampling rate	25.6 MHz (25.6 million samples/second)	
Damage level with CW field (level increase as duty cylce decrease for magnetic field)	200 kV/m (up to 80 kHz) 47 kV/m (80 kHz to 10 MHz)	100 mT (@ 50 Hz) 8 mT (600 Hz – 1 kHz) 2 mT (4 kHz – 200 kHz) · Damage level increases linearly with decreasing frequency below 600 Hz · Damage level decreases linearly between 1 kHz and 4 kHz · Damage level decreases linearly with increasing frequency above 200 kHz
Weight	425 g / 0.937 lbs	
Probe size	280 mm x 128 mm Ø / 11.02 in x 5.04 in Ø	
Calibration period	24 months (recommended)	

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

Compatible with **SMP3**

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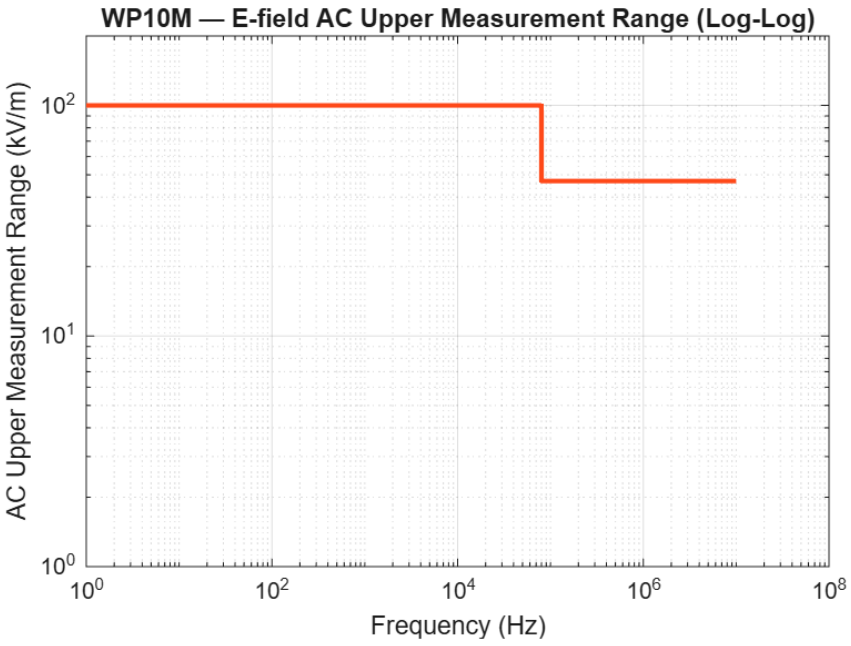
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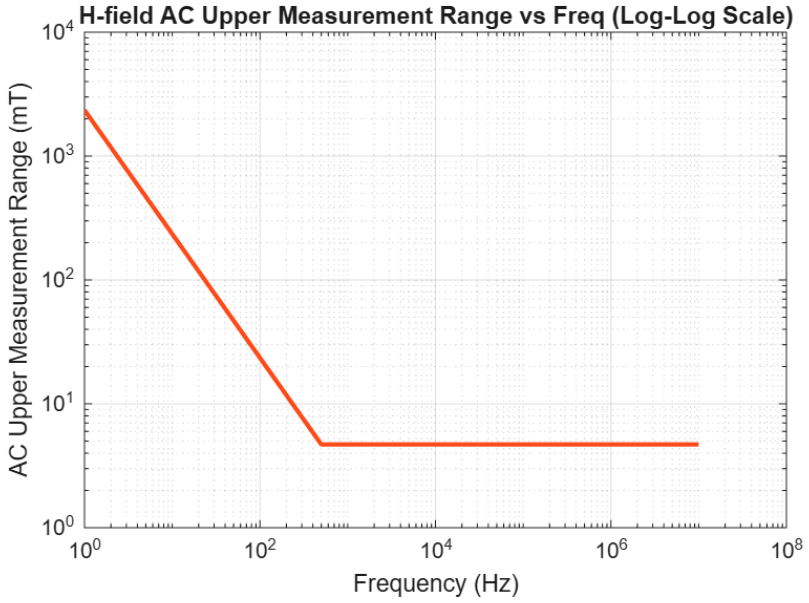
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1 Hz - 10 MHz

Measurement Range Graph

E Field:



H Field:



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WP10M Probe
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Probe axes orientation



WP10M_EN_2607_v2.8

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