WP400-3 Probe
1 Hz - 400 kHz

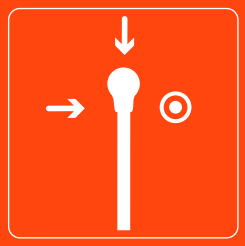
- **Electric & Magnetic field measurement**
- **Isotropic & True RMS measurement**
- **Spectrum analysis probe**
- **Measurements in accordance with International Standards**

1 Hz - 400 kHz

E & H

RMS

ISOTROPIC



IEC/EN 62233
Household appliances and similar apparatus: Measurement methods for electromagnetic fields with regard to human exposure.

IEC/EN 62822
Electric welding equipment: Assessment of restrictions related to human exposure to electromagnetic fields.

IEC/EN 62311
Assessment of electronic and electrical equipment for which no dedicated product or product family standard regarding human exposure to electromagnetic fields applies.



Technical Specifications

	Electric Field	Magnetic Field
Part Number	WWP1201	
Sensor type	Isotropic electrode	Isotropic 3 cm^2 coils
Frequency range	1 Hz – 400 kHz	1 Hz – 400 kHz
Field Strength Mode		
Measurement range	10 V/m to 400 kV/m	200 nT – 50 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.
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	< 0.3 nT (at 50 Hz) and < 0.15 nT above 100 Hz
Noise level	< 10 V/m (10 Hz - 400 kHz)	< 200 nT (10 Hz - 400 kHz)
Weighted Peak Method mode		
Measurement range	200 % (min)	
Graphical display	PEAK (%), AXIS VALUES (%), AVG (%), MAX (%), MIN (%), RMS (%), Time graph	
Standards/Limits	Standards / Limits EU Directive 2013/35/EU, FCC/IEEE, ICNIRP 1998 workers, ICNIRP 2010 workers, BGV B11 Easy software update to future modifications and to other limits.	

WAVECONTROL
Safety, Quality, Service

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

WP400-3 Probe
1 Hz - 400 kHz

Technical Specifications

	Electric Field	Magnetic Field
FFT Mode		
Measurement range	40 mV/m to 400 kV/m	2 nT to 50 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.
Graphical display	Frequency analysis, total field and axis	
SPAN (Resolution)	400 Hz (1 Hz) – 4 kHz (10 Hz) – 40 kHz (100 Hz) – 400 kHz (1 kHz)	
Noise level	< 40 mV/m	< 1.8 nT
FFT	1024 point FFT	
General specifications		
Isotropy	± 5 %	< ±0.5 % up to 1 kHz < ±1% above 1 kHz
Frequency Response	50 Hz – 60 Hz: ±1 % 10 Hz – 100 kHz: ±3 % 100 kHz – 400 kHz: ±8 %	50 Hz – 60 Hz: ±1 % 10 Hz – 100 kHz: ±3 % 100 kHz – 400 kHz: ±12 %
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 (10 Hz - 100 kHz) (1)	50 Hz – 60 Hz: ± 6.3 % 10 Hz – 100 kHz: ± 7.0 % 100 kHz – 400 kHz: ± 11 %	50 Hz – 60 Hz: ± 2.2 % 10 Hz – 100 kHz: ± 3.9 % 100 kHz – 400 kHz: ± 13.7 %
Sampling rate	1.024 MHz (over 1 million samples/second)	
Damage level	> 600 kV/m	> 5000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz
Weight	125 g / 0.276 lbs	
Probe size	275 x 33 mm Ø / 10.83 in x 1.30 in Ø	
Calibration period	24 months (recommended)	

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



Compatible with SMP3, SMP2

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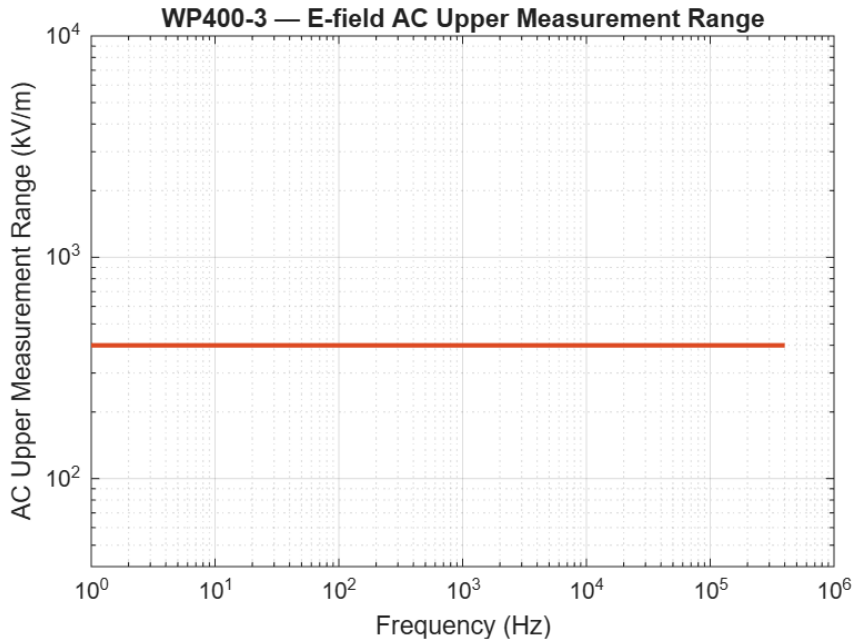
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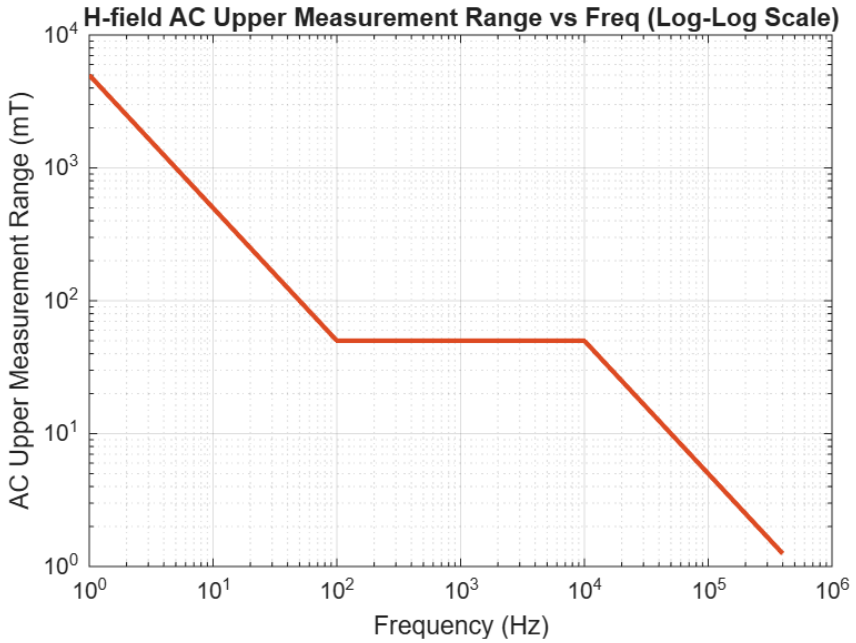
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Measurement Range Graph

E Field:



H Field:



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WP400-3 Probe
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Probe axes orientation



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