

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) |
| Typical Uncertainty (10 Hz - 100 kHz) (1) | 8 % (0.67 dB) | 7.2 % (0.60 dB) |
| Weighted Peak Method mode | | |
| Measurement range | 200 % (min) | 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. | |
| Typical Uncertainty (10 Hz - 100 kHz) (1) | 8 % (0.67 dB) | 7.2 % (0.60 dB) |

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



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Technical Specifications

| | Electric Field | Magnetic Field |
|---|---|---|
| FFT Mode | Frequency analysis, total field and axis | |
| 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 % | ± 4 % |
| 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) |
| 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 |
| Linearity | ± 1 % (typ.) ± 2 % (max.) | |
| Weight | 125 g | |
| Probe size | 275 x 33 mm Ø | |
| Calibration period | 24 months (recommended) | |



Compatible with **SMP3**, **SMP2**

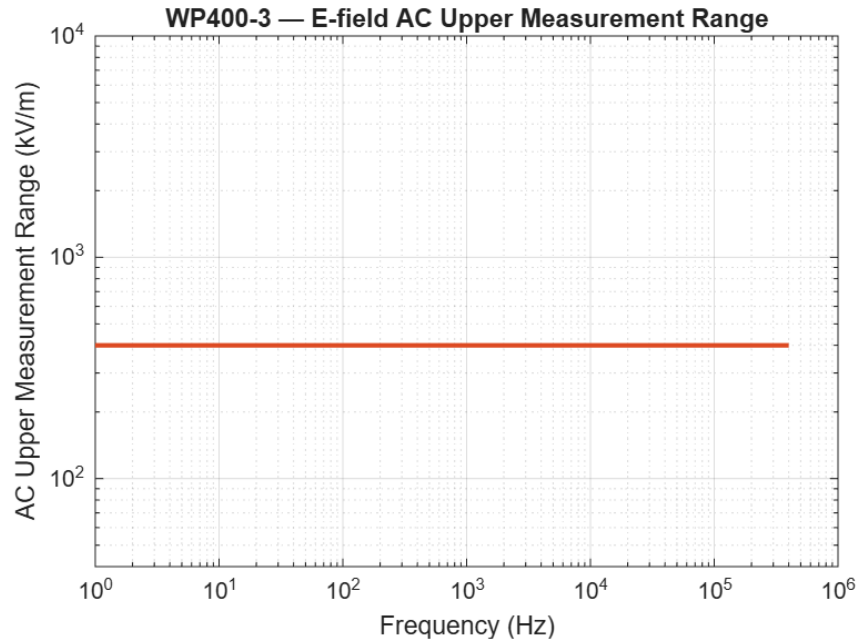
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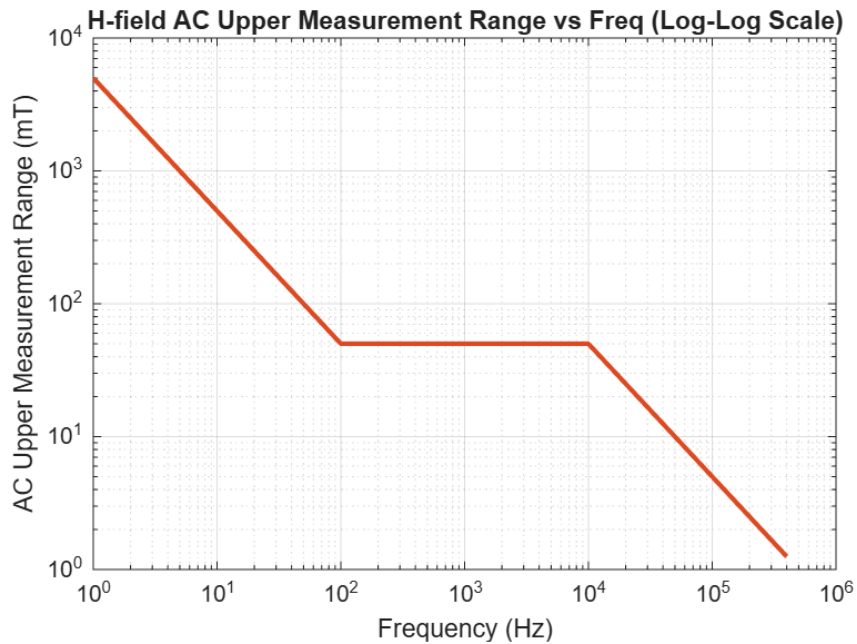


Measurement Range Graph

E Field:



H Field:



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Probe axes orientation



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