WP400-3 Probe
1 Hz - 400 kHz

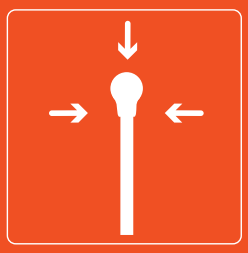
- Electric & Magnetic field measurement
- Isotropic & True RMS measurement
- Spectrum analysis probe
- Measurements in accordance with International Standards

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
Sensor type	Isotropic electrode	Isotropic 3 cm² 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	< 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)	0.67 dB	0.60 dB
Weigthed 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, FCC/IEEE, Safety Code 6, 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)	0.67 dB	0.60 dB

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(ES) Equipements Scientifiques SA - Département Tests & Mesures - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 45 - Fax. 01 47 01 16 22 - e-mail: tem@es-france.com - Site Web: www.es-france.com

WP400-3 Probe
1 Hz - 400 kHz

Technical Specifications

	Electric Field	Magnetic Field
FFT Mode		
Measurement range	40 mV/m – 400 kV/m	2 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	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 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)
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	

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

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

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