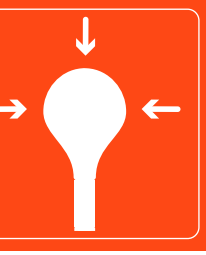
WP10M Probe 1 Hz - 10 MHz

- 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
Sensor type	Isotropic patented coil (100 cm²) and dipole arrangement	
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 -10MHz)	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 (10Hz – 10MHz)	< 2 V/m	< 100 nT
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, IEEE, ICNIRP, BGV B11. Easy software update to future modifications and to other limits.	

WP400_EN_2005_v2.3

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 axis	
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
General specifications		
Isotropy	± 5 %	± 4 %
Typical Uncertainty (1)	0.67 dB	0.60 dB
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 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
Linearity	± 1 % (typ.) ± 2 % (max.)	
Weight	220 g / 0.485 lbs	
Probe size	280 mm x 128 mm Ø / 11.02 in x 5.04 in Ø	

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

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

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