WP400 Probe 1 Hz - 400 kHz

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







Power grid

Measurement of EM fields in trains and in the railway environment with respect to human exposure.

and high-voltage lines.

Measurement of the exposure to

EM fields at transformer stations



Industry Assessment of workers' exposure to EM fields in all kind of manufacturing facilities.



Technical Specifications

	Electric Field	Magnetic Field	
Sensor type	Isotropic patented electrodes		
Frequency range	1 Hz – 400 kHz	1 Hz – 400 kHz	
Field Strength Mode			
Measurement range	1 V/m to 100 kV/m	50 nT - 10 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	< 0.1 nT (at 50 Hz) and < 0.05 nT above 100 Hz	
Noise level	< 1 V/m (10 Hz - 400 kHz)	< 50 nT (10 Hz – 400 kHz)	
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, ICNIRP, BGV B11. Easy software update to future modifications and to other limits.		





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WP400 Probe 1 Hz - 400 kHz

Technical Specifications

Electric FieldMagnetic FieldFFT ModeMeasurement range4 mV/m - 100 kV/m0.5 nT - 10 mT (100 Hz - 10 kHz) · Upper range increases linearly with increasing frequency below 100 Hz. · Upper range decreases linearly with increasing frequency above 10 kHz.Graphical displayFrequency analysis, total field and axisSPAN (Resolution)400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)Noise level< 4 mV/m< 0.5 nTFFT1024 point FFTGeneral Specifications± 5 %± 4 %Typical Uncertainty (1)0.67 dB0.60 dBTemperature deviation (typ. at 60 Hz) (referred to 25 °C, 50 % relative humidity)> 200 kV/m> 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 HzLinearity± 1 % (typ.) ± 2 % (max.)200 grupWeight220 gParabas is a conserver			
Measurement range4 mV/m - 100 kV/m $0.5 n T - 10 m T (100 Hz - 10 kHz)$ · Upper range increases linearly with decreases linearly with decreases linearly with increasing frequency below 100 Hz.Graphical displayFrequency analysis, total field and axisSPAN (Resolution)400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)Noise level< 4 mV/m		Electric Field	Magnetic Field
Notice laws of the problem in the constraint of the problem increases linearly with decreasing frequency below 100 Hz. Upper range increases linearly with increasing frequency above 10 kHz.Graphical displayFrequency analysis, total field and axisSPAN (Resolution)400 Hz (1 Hz) - 4 kHz (10 Hz) - U kHz (100 Hz) - 400 kHz (1 kHz)Noise level< 4 mV/m	FFT Mode		
decreasing frequency below 100 Hz. · Upper range decreases linearly with increasing frequency above 10 kHz.Graphical displayFrequency analysis, total field and axisSPAN (Resolution)400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)Noise level< 4 mV/m	Measurement range	4 mV/m – 100 kV/m	0.5 nT - 10 mT (100 Hz - 10 kHz)
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 < 4 mV/m			
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Noise level < 4 mV/m	Graphical display	Frequency analysis, total field and axis	
FFT 1024 point FFT General Specifications ± 4 % 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) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz Linearity ± 1 % (typ.) ± 2 % (max.) Weight 220 g	SPAN (Resolution)	400 Hz (1 Hz) - 4 kHz (10 Hz) - 40 kHz (100 Hz) - 400 kHz (1 kHz)	
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) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz Linearity ± 1 % (typ.) ± 2 % (max.) 220 g	Noise level	< 4 mV/m	< 0.5 nT
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) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz Linearity ± 1 % (typ.) ± 2 % (max.) Weight 220 g	FFT	1024 point FFT	
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) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz Linearity ± 1 % (typ.) ± 2 % (max.) Weight 220 g	General Specifications		
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) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz Linearity ± 1 % (typ.) ± 2 % (max.) 220 g	Isotropy	± 5 %	±4%
[typ. at 60 Hz] (referred to 25 °C, 50 % relative humidity)+ 0.003 dB/°C (25 °C to 40 °C)Damage level> 200 kV/m> 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 HzLinearity± 1 % (typ.) ± 2 % (max.)Weight220 g	Typical Uncertainty (1)	0.67 dB	0.60 dB
referred to 25 °C, 50 % relative humidity) + 0.003 dB/°C (25 °C to 40 °C) Damage level > 200 kV/m > 2000 mT up to 60 Hz Damage level decreases linearly with increasing frequency above 60 Hz ± 1 % (typ.) ± 1 % (typ.) ± 2 % (max.) Weight 220 g		- 0.005 dB/°C (- 15 °C to 40 °C)	- 0.003 dB/°C (- 15 °C to 25 °C)
Linearity ± 1 % (typ.) ± 2 % (max.) Weight 220 g	(referred to 25 °C, 50 % relative		+ 0.003 dB/°C (25 °C to 40 °C)
Linearity ± 1 % (typ.) ± 2 % (max.) Weight	Damage level	> 200 kV/m	> 2000 mT up to 60 Hz
± 2 % (max.) Weight 220 g			
Weight 220 g	Linearity	±1% (typ.)	
•		± 2 %	(max.)
Proho size	Weight	220 g	
	Probe size	280 mm x 128 mm 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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