

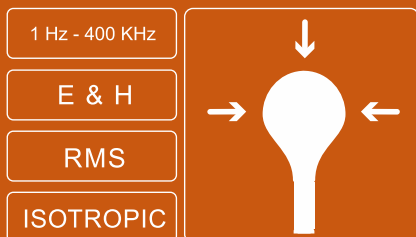
# WP400 Probe

## 1 Hz - 400 kHz



**WAVECONTROL**  
Safety, Quality, Service

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



**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.



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
<b>Field Strength Mode</b>		
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)
Typical Uncertainty (1)	0.67 dB	0.60 dB
<b>Weighed Peak Method mode</b>		
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, BGV B11, Chinese Standard.  Easy software update to future modifications and to other limits.	
Typical Uncertainty (1)	0.67 dB	0.60 dB



WP400\_EN\_1701\_V2.0



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TES America  
www.tesamerica.com  
info@tesamerica.com  
TES America México  
015536834284  
TES America Colombia  
PBX +571-3653949

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### Technical Specifications

	Electric Field	Magnetic Field
<b>FFT Mode</b>		
Measurement range	4 mV/m – 100 kV/m	0.5 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	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	< 0.5 nT
FFT	1024 point FFT	
<b>General Specifications</b>		
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	> 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	
Probe size	280 mm x 120 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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TES America México  
015536834284  
TES America Colombia  
PBX + 571 -3653949