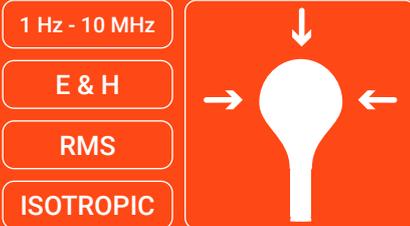


WP10M Probe

1 Hz - 10 MHz



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



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 cm ²) 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

WP10M Probe

1 Hz - 10 MHz



Technical Specifications

| | Electric Field | Magnetic Field |
|--|---|---|
| FFT Mode | Frequency analysis, total field and axis | |
| 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 cycle 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, repeatability.



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