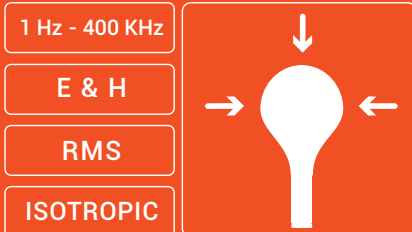


電磁界プローブ 3軸式等方性100cm² WP400 1Hz~400kHz



- 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.

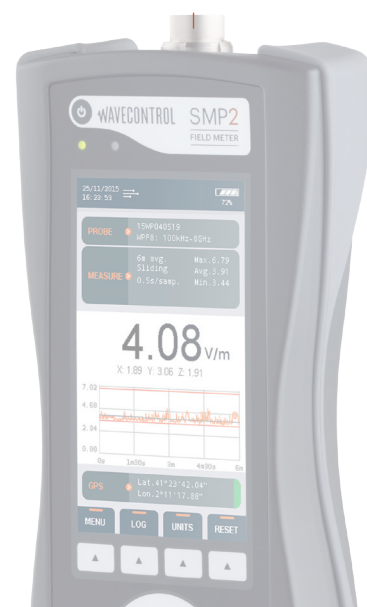


Industry
Assessment of workers' exposure to EM fields in all kind of manufacturing facilities.



Technical Specifications

	Electric Field	Magnetic Field
Sensor type	Isotropic patented 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.	



WP400_EN_L1904_V2.2

電磁界プローブ 3軸式等方性100cm² WP400 1Hz~400kHz



Technical Specifications

	Electric Field	Magnetic Field
FFT Mode		
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	
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	> 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 128 mm Ø	

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

【主なアプリケーション】

- ・エネルギー: IEC/EN 62110
- ・鉄道: EN 50500
- ・溶接: EN 50505
- ・誘導加熱(LF): EN 50519
- ・電気/誘導精練
- ・家庭電化製品: IEC/EN 62233, EN 50366
- ・RFID/EAS: EN 50364, EN 50357, IEC/EN 62369-1 IEC/EN 61786-1対応
- ・医療: IEC60601
- ・研究・実験室
- ・電子/電気設備: IEC/EN 62311
- ・防衛
- ・職場評価: EN50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN50413

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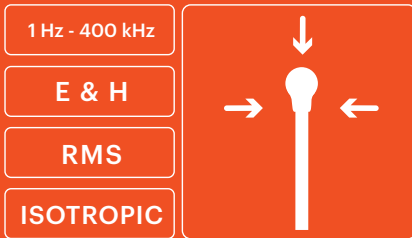


Product specifications and descriptions in this document subject to change without notice

電磁界プローブ 3軸式等方性3cm² WP400-3 1Hz~400kHz



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



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.



IEC/EN 62233規格適合
IEC/EN 62822規格適合
IEC/EN 62311規格適合

Technical Specifications

	Electric Field	Magnetic Field
Sensor type	Isotropic electrode	Isotropic 3 cm ² 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
Weighted 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



WP400-3_EN_1701_v1.0

電磁界プローブ 3軸式等方性3cm² WP400-3 1Hz~400KHz



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.

【主なアプリケーション】

家電製品、高圧送電線の周辺測定、電気溶接、電気炉などの安全性確認に有用

- ・溶接設備: IEC/EN 62822, EN 50505
- ・家庭用品: IEC/EN 62233, EN 50366
- ・電気電子機器: IEC/EN 62311
- ・職場評価: EN50499
- ・研究、実験室
- ・狭小や空間分解能が重要な用途
IEC/EN 61786-1対応

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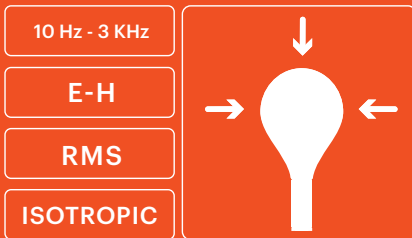
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電磁界プローブ

WP50 10Hz~3KHz



- Electric & Magnetic field measurement
- Isotropic & True RMS measurement
- Probe weighted dependant on the selected limit
- Measurements in accordance with IEC 62110 and IEC 61786



Power grid

Spot or continuous measurement of E and H at transformer stations and high-voltage lines.



Railway

Measurement of E and H fields generated in trains or near railway facilities.



Industry

Measurement in manufacturing facilities with strong electromagnetic fields to ensure workplace safety.



Technical Specifications

Frequency range	10 Hz - 3 kHz
Sensor type	Isotropic, RMS Combined measurement of electric and magnetic field
Type of frequency response	1) Weighted (Results displayed in % of the selected standard) 2) Flat response (Results in V/m, μ T, etc.)
Exposure limits (probe in weighted mode)	Public and occupational ICNIRP 2010 Customizable to other standards
Measurement range	Weighted mode \rightarrow E-field: 0.025 % - 200 % of limit (RMS value) H-field: 0.025 % - 200 % of limit (RMS value) Field Strength Mode \rightarrow E field: 2.5 V/m - 20000 V/m (RMS) H field: 0.25 μ T - 2000 μ T (RMS)
Dynamic range	78 dB
Sensitivity	Weighted (E,H) 0.025 % Flat response E field 2.5 V/m Flat response H field 0.25 μ T
Frequency response	\pm 20 % (typ.) of standard (25 Hz - 1 kHz) \pm 25 % (max.)
Linearity	\pm 1 % (typ.) (1 % - 100 % of standard) \pm 2 % (max.)
Isotropic response	\pm 5 % (typ.)
Calibration	ISO 17025 Accredited Calibration (ILAC)
Calibration period	24 meses (recomendado)
Operating temperature	- 15 $^{\circ}$ C a 50 $^{\circ}$ C
Dimensions	270 mm x 115 mm \varnothing
Field sensor area	100 cm ²
Weight	210 g

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WP50_EN1702_V2.0

電界プローブ WPFシリーズ

WAVECONTROL
Safety, Quality, Service

主なアプリケーション一覧

【WPF3 / WPF3-HP 100kHz~3GHz】

- ・遠距離通信
 - 無線通信ネットワーク: IEC 62232, EN 50400, EN 50401
 - 放送: IEC 62577, EN 50475, EN 50476, EN 50496, EN 50554
- ・RFID/EAS: EN 50364, EN 50357, IEC/EN 62369-1
- ・誘導加熱(HF): EN 50519
- ・プラスチック溶接
- ・半導体生産
- ・医療: IEC 60601
- ・職場評価: EN 50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN 50413
- ・研究、実験室
- ・マイクロ波乾燥

【WPF6 / WPF6-HP 100kHz~6GHz】

- ・遠距離通信
 - 無線通信ネットワーク: IEC 62232, EN 50400, EN 50401
 - 放送: IEC 62577, EN 50475, EN 50476, EN 50496, EN 50554
- ・RFID/EAS: EN 50364, EN 50357, IEC/EN 62369-1
- ・誘導加熱(HF): EN 50519
- ・プラスチック溶接
- ・半導体生産
- ・医療: IEC 60601
- ・職場評価: EN 50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN 50413
- ・研究、実験室
- ・マイクロ波乾燥

【WPF8 / WPF8-HP 100kHz~8GHz】

- ・遠距離通信
 - 無線通信ネットワーク: IEC 62232, EN 50400, EN 50401
 - 放送: IEC 62577, EN 50475, EN 50476, EN 50496, EN 50554
- ・RFID/EAS: EN 50364, EN 50357, IEC/EN 62369-1
- ・誘導加熱(HF): EN 50519
- ・プラスチック溶接
- ・半導体生産
- ・医療: IEC 60601
- ・職場評価: EN 50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN 50413
- ・研究、実験室
- ・マイクロ波乾燥

【WPF18 / WPF18-HP 300kHz~18GHz】

- ・遠距離通信
 - 無線通信ネットワーク: IEC 62232, EN 50400, EN 50401
 - 放送: IEC 62577, EN 50475, EN 50476, EN 50496, EN 50554
- ・RFID/EAS: EN 50364, EN 50357, IEC/EN 62369-1
- ・誘導加熱(HF): EN 50519
- ・プラスチック溶接
- ・半導体生産
- ・医療: IEC 60601
- ・職場評価: EN 50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN 50413
- ・研究、実験室
- ・マイクロ波乾燥
- ・レーダー
- ・防衛(HF)

【WPF40 20MHz~40GHz】

- ・遠距離通信
 - 無線通信ネットワーク: IEC 62232, EN 50400, EN 50401
 - 放送: IEC 62577, EN 50475, EN 50476, EN 50496, EN 50554
 - 衛星設備
- ・職場評価: EN 50499
- ・能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- ・人体暴露評価: EN 50413
- ・研究、実験室
- ・マイクロ波乾燥
- ・漏れ検知
- ・レーダー
- ・防衛(HF)



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電界プローブ WPF3 100kHz~3GHz



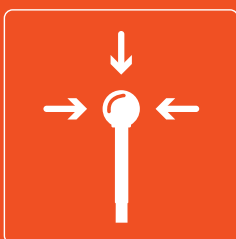
- High sensitivity from 0.2 V/m
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards

100 kHz - 3 GHz

E

RMS

ISOTROPIC



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, AM, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and personnel labs.



Technical Specifications

	WPF3	WPF3-HP High Power version
Frequency range	100 kHz - 3 GHz	
Sensor type	Isotropic RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.2 - 130 V/m (CW) 0.2 - 20 V/m (RMS)	0.2 - 1000 V/m (CW)
Dynamic range	52 dB	74 dB
Sensitivity	0.2 V/m	
Resolution	0.02 V/m (until 7.5 V/m) < 2% (starting from 7.5 V/m)	
Frequency response (*)	± 1.5 dB (250 kHz - 3 GHz) - 3 dB (100 kHz)	
Linearity	± 0.5 dB (0.5 V/m - 100 V/m)	
Isotropic deviation	± 1.2 dB (@ 2 GHz)	
Calibration	ISO 17025 accredited (ILAC)	
Calibration period	24 months (recommended)	
Temperature range	- 20 °C to 50 °C	
Temperature response	+ 0.1 / - 1 dB (related to 20 °C)	
Dimensions	28.4 cm x 6 cm Ø	
Weight	95 g	
Attenuation at 50/60 Hz	> 80 dB	

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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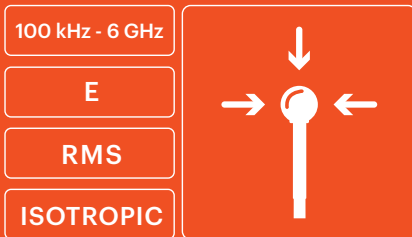
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電界プローブ

WPF6 100kHz~6GHz



- High sensitivity from 0.3 V/m
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, AM, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and personnel labs.



Technical Specifications

	WPF6	WPF6-HP High Power version
Frequency range	100 kHz - 6 GHz	
Sensor type	Isotropic RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.3 - 130 V/m (CW) 0.3 - 20 V/m (RMS)	0.3 - 1000 V/m (CW)
Dynamic range	52 dB	70 dB
Sensitivity	0.3 V/m	
Resolution	0.02 V/m (until 7.5 V/m) 0.1 V/m (from 7.5 V/m to 130 V/m)	
Frequency response	± 1.5 dB (250 kHz - 6 GHz) - 3 dB (100 kHz)	
Linearity	± 0.5 dB (0.5 V/m - 100 V/m)	
Isotopic deviation	± 1.2 dB (@ 2 GHz)	
Calibration	ISO 17025 accredited (ILAC)	
Calibration period	24 months (recommended)	
Temperature range	-20 °C to 50 °C	
Temperature response	+0.1/ -1 dB (related to 20 °C)	
Dimensions	28.4 cm x 6 cm Ø	
Weight	95 g	
Attenuation at 50/60 Hz	> 80 dB	

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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WPF6_EN_1703_v11

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電界プローブ

WPF8 100kHz~8GHz



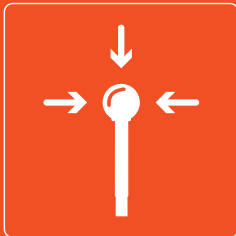
- High sensitivity from 0.3 V/m
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards

100 kHz - 8 GHz

E

RMS

ISOTROPIC



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, AM, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.



Technical Specifications

	WPF8	WPF8-HP High Power version
Frequency range	100 kHz - 8 GHz	
Sensor type	Isotropic RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.3 - 130 V/m (CW) 0.3 - 20 V/m (RMS)	0.3 - 1000 V/m (CW)
Dynamic range	52 dB	70 dB
Sensitivity	0.3 V/m	
Resolution	< 5 %	
Frequency response	± 1.5 dB (250 kHz - 6 GHz) + 0.5 / - 2.5 dB (6.5 GHz - 8 GHz) - 3 dB (100 kHz)	
Linearity	± 0.5 dB (0.5 V/m - 100 V/m)	
Isotropic deviation	± 1.2 dB (@ 2 GHz)	
Calibration	ISO 17025 accredited (ILAC)	
Calibration period	24 months (recommended)	
Temperature range	- 20 °C to 50 °C	
Temperature response	+ 0.1/ - 1 dB (related to 20 °C)	
Dimensions	28.4 cm x 6 cm Ø	
Weight	95 g	
Attenuation at 50/60 Hz	> 80 dB	

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).



WPF8_EN_1703_v1.1

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電界プローブ

WPF18 300kHz~18GHz



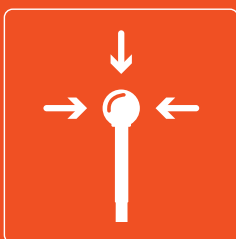
- High sensitivity from 0.5 V/m
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards

300 kHz - 18 GHz

E

RMS

ISOTROPIC



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, AM, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.



Technical Specifications

	WPF18	WPF18-HP High Power version
Frequency range	300 kHz - 18 GHz	
Sensor type	Isotropic RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.5 - 250 V/m (CW) 0.5 - 30 V/m (RMS)	0.5 - 1000 V/m (CW)
Dynamic range	54 dB	66 dB
Sensitivity	0.5 V/m	
Resolution	< 5 %	
Frequency response	± 2 dB (1 MHz - 5 GHz) + 0 / - 6 dB (5 GHz - 18 GHz)	
Linearity	± 0.5 dB (1 V/m - 150 V/m)	
Isotropic deviation	± 1.2 dB (up to 10 GHz) ± 3 dB (10 GHz - 18 GHz)	
Calibration	ISO 17025 accredited calibration (ILAC)	
Calibration period	24 months (recommended)	
Temperature range	- 20 °C to 50 °C	
Temperature response	+ 0.1/ - 1 dB (related to 20 °C)	
Dimensions	28.4 cm x 6 cm Ø	
Weight	95 g	
Attenuation at 50/60 Hz	> 80 dB	

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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WPF18_EN_1703_V11

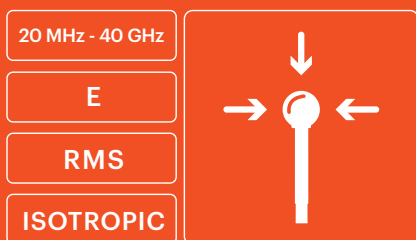
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電界プローブ

WPF40 20MHz~40GHz



- High dynamic range of 60 dB
- Isotropic and RMS measurement
- Excellent attenuation at 50/60 Hz
- Meets international standards



Telecommunications: certification and audit of telecommunication services (GSM, 3G, LTE, TDT, FM, WiFi, etc.).



Industry: assessment of industrial processes for worker's exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.

Technical Specifications

Frequency range	20 MHz - 40 GHz
Sensor type	Isotropic RMS diode technology
Type of frequency response	Flat
Measurement range	1 - 1000 V/m (CW) 1 - 55 V/m (RMS)
Dynamic range	60 dB
Sensitivity	1 V/m
Frequency response	± 2 dB (30 MHz - 30 GHz) + 0 / - 4 dB (30 GHz - 35 GHz) + 0 / - 6 dB (35 GHz - 40 GHz) - 3 dB @ 20 MHz
Linearity	± 2 dB (1 - 2 V/m) ± 1 dB (2 - 250 V/m)
Isotropic deviation	± 1 dB (< 12 GHz) ± 2 dB (12 GHz to 40 GHz)
Damage level (CW)	1200 V/m
Calibration	ISO 17025 accredited calibration (ILAC)
Calibration period	24 months (recommended)
Temperature range	- 20 °C to 50 °C
Temperature response	+ 0.1 / - 1 dB (related to 20 °C)
Dimensions	28.4 cm x 6 cm Ø
Weight	95 g
Attenuation at 50/60 Hz	> 40 dB

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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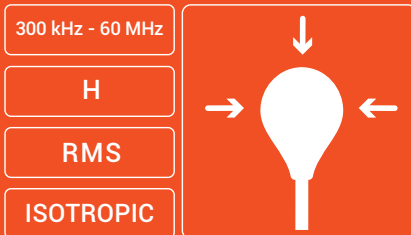
WPF40_EN_1703_v11

磁界プローブ

WPH60 300kHz~60MHz



- High sensitivity from 0.018 A/m
- Isotropic and RMS measurement
- Measurements in accordance with International Standards



Telecommunications: certification and audit of telecommunication services.



Industry: assessment of industrial processes for workers' exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.



WPH60.EN.L1703.V1.1

【主なアプリケーション】

- 放送: IEC62577, EN50475, EN50476, EN50496, EN50554
- RFID/EAS: EN50364, EN50357, IEC/EN62369-1
- 誘導加熱 (HF): EN 50519
- 能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- 職場評価: EN50499
- 人体暴露評価: EN50413
- 研究、実験室
- 防衛

Technical Specifications

Frequency range	300 kHz - 60 MHz
Sensor type	Isotropic, RMS Diode Technology
Type of frequency response	Flat
Measurement range	0.018 - 20 A/m (CW) 0.018 - 1 A/m (RMS)
Damage Level CW	35 A/m (350 A/m Peak 1 μ s, period 100 μ s)
Dynamic range	60 dB
Sensitivity	0.018 A/m
Frequency response	± 0.5 dB (500 kHz - 30 MHz) $-3 / +0.5$ (300 kHz - 60 MHz)
Linearity	± 1 dB (0.04 to 4 A/m)
Axial isotropy	± 1 dB
Calibration period	24 months (recommended)
Temperature range	-10 $^{\circ}$ C to 50 $^{\circ}$ C
Dimensions	270 mm x 90 mm \varnothing
Weight	170 g

(*) The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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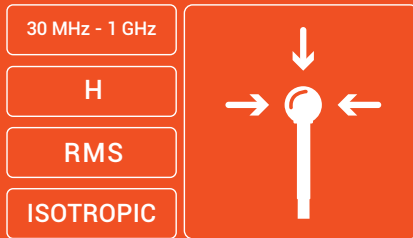
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磁界プローブ

WPH1000 30MHz~1GHz



- High sensitivity from 0.020 A/m
- Isotropic and RMS measurement
- Measurements in accordance with International Standards



Telecommunications: certification and audit of telecommunication services.



Industry: assessment of industrial processes for workers' exposure protection.



Defence: assessment of military sites and personnel exposure protection.



Labs/R&D: RF exposure protection of R&D and labs personnel.



【主なアプリケーション】

- 放送: IEC62577, EN50475, EN50476, EN50496, EN50554
- RFID/EAS: EN50364, EN50357, IEC/EN62369-1
- 誘導加熱 (HF): EN 50519
- 医療: IEC60601
- 能動埋め込み型医療機器(AIMD)装着労働者評価: EN50527-1
- 職場評価: EN50499
- 人体暴露評価: EN50413
- 研究、実験室
- 防衛

Technical Specifications

Frequency range	30 MHz - 1 GHz
Sensor type	Isotropic, RMS Diode Technology
Type of frequency response	Flat
Measurement range	0.020 - 20 A/m
Damage Level CW	35 A/m (350 A/m Peak 1 μ s, period 100 μ s)
Dynamic range	60 dB
Sensitivity	0.020 A/m
Frequency response	+ 0.5 / - 1 dB (40 MHz - 700 MHz) + 0.5 / - 3 dB (30 MHz - 1 GHz)
Linearity	\pm 1 dB (0.04 to 4 A/m)
Axial isotropy	\pm 1 dB
Calibration period	24 months (recommended)
Temperature range	- 10 °C to 50 °C
Dimensions	28.4 cm x 6 cm \varnothing
Weight	95 g

(* The frequency response can be corrected with the SMP2 by using the correction factors stored in the probe (ISO 17025 accredited calibration).

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WAVECONTROL

Safety, Quality, Service

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磁界プローブ

WPH-DC

DC~40kHz



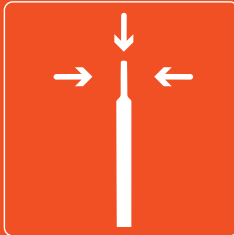
- Magnetic field measurement
- Isotropic & True RMS measurement
- Static and time-variable fields
- Spectrum analysis probe
- Measurements in accordance with International Standards

DC - 40 kHz

H

RMS

ISOTROPIC



Medical

Magnetic resonance in hospitals.
Implants protection.



Railway

High static field due to DC powered railroads.



Industry

Exposure assessment of electrical vehicles, electrolysis, permanent magnets, DC generators, etc.



【主なアプリケーション】

- メディカル (MRI) : IEC60601-2-33
- 鉄道 (DCモーター) : EN 50500
- 自動車 (電気自動車)
- 化学工業 (電気分解)
- 強力永久磁石
- エネルギー (DCジェネレータ)
- 度量衡学 (地球磁場)

Technical Specifications

Sensor type	Triaxial Hall sensor		
Frequency range	0 - 40 kHz		
Measurement range	10 uT - 10 T		
Overload	20 T		
Dynamic range	> 120 dB		
Field	Static	Static and Variable	Variable
Frequency range	0 - 1 Hz	0 - 40 kHz	1 Hz - 40 kHz
Low pass filter	1Hz	None or 1 kHz	
FFT	-	SPAN 40 Hz - 400 Hz - 4 kHz -40 kHz	
Graphical display	Static field, axis information	RMS, Peak, FFT, axis information	
Calibration period	24 months (recommended)		
Dimensions	273 x Ø 21 (mm) - Sensor stick Ø 9.4 (mm)		
Weight	90 g		

推奨アクセサリ : 5メートル延長ケーブル

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WAVECONTROL

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携帯電話通信プローブ

WPT

700-900, 1800-1900, 2100, 2600バンド電界測定

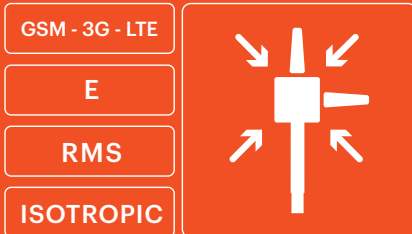


- Specific mobile frequencies probe
- Isotropic & True RMS measurement
- Best sensitivity starting at 0.04 V/m
- High interband attenuation



Telecommunications

The WPT probe allows measurement of the electromagnetic field only within the mobile telephone spectrum, ignoring all other sources of radiation.



- 【主なアプリケーション】
・携帯電話基地局の評価

Technical Specifications

Frequency bands	700-900, 1800-1900, 2100 and 2600
Sensor type	Isotropic, True RMS
Measurement range	0.04 - 65 V/m (RMS)
Dynamic range	> 64 dB
Sensitivity	0.04 V/m
Resolution	0.07 dB
Interband attenuation	> 20 dB (1100 MHz) > 5 dB (2300 MHz)
Frequency response	± 3.3 dB
Linearity	< ± 0.4 dB (0.2 - 50 V/m)
Isotropic deviation	< ± 1.7 dB
Calibration period	24 months (recommended)
Calibration	ISO 17025 accredited (ILAC)
Operating temperature	- 30°C to + 80°C
Temperature response	± 0.8 dB (- 20°C to 60°C)
Dimensions	28.5 x 10.5 x 10.5 cm
Weight	140 g

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WP-WiFiプローブ

WiFi 2.45GHz電界測定

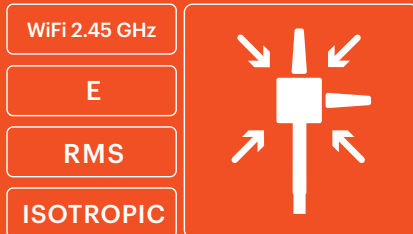


- Specific 2.45 GHz Frequency probe
- Isotropic & True RMS measurement
- Best sensitivity starting at 0.04 V/m
- High out of band attenuation



Telecommunications

The WP-WiFi probe allows measurement of the electromagnetic field only generated by WiFi communications at 2.45 GHz, ignoring all other sources of radiation.



- 【主なアプリケーション】
- WiFi発信機の評価

Technical Specifications

Frequency band	WiFi 2.45 GHz
Sensor type	Isotropic, True RMS
Measurement range	0.04 - 65 V/m (RMS)
Dynamic range	> 64 dB
Sensitivity	0.04 V/m
Resolution	0.07 dB
Out of band attenuation	> 28 dB
Frequency response	± 0.95 dB
Linearity	< ± 0.5 dB (0.2 - 50 V/m)
Isotropic deviation	< ± 1.7 dB
Calibration period	24 months (recommended)
Calibration	ISO 17025 accredited (ILAC)
Operating temperature	- 30°C to + 80°C
Temperature response	± 0.6 dB (- 20°C to 60°C)
Dimensions	28.5 x 10.5 x 10.5 cm
Weight	140 g

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WP-WIFILEN_1702_V1.1

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