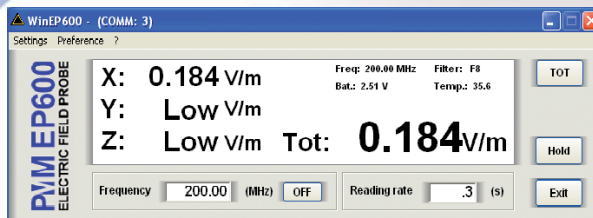




PMM EP-600 & EP-601 USB/RS232 Electric Field Probes



The all-in-one that sets the standard for miniature optically coupled broadband E-field Probes

Main features

- 10 kHz to 9.25 GHz frequency range
- 60 dB dynamic range: 0,14 - 140 V/m (EP-600); 0,5 - 500 V/m (EP-601)
- Symmetrical dipoles configuration
- Excellent isotropy (0.3 dB typical)
- Up to 40 meters communication by Fiber Optic Cable
- Up to 80 hours of operation before recharging
- High performance, high reliability Li-Mn battery
- PC direct connection via Optical to RS232/USB adapters
- Extremely lightweight: only 25 g!

Exceptionally small-sized spherical symmetrical configuration, lightweight and miniaturized electronics combined with excellent RF characteristics make PMM EP-600 and EP-601 RF Electric Field Probes the ideal solutions for all EMC/EMI applications (chambers and TEM/GTEM cells), biology and materials research and wherever fast and accurate measurements with negligible or minimum interference of the probe to the field under measure are essential. Accredited calibration provided.



EP-600 mounted on tripod
RF-transparent tip

Technical Specifications

	EP-600	EP-601
Frequency range	100 kHz – 9.25 GHz	10 kHz – 9.25 GHz
Flatness	With frequency correction OFF 1 – 150 MHz: 0.8 dB 0,5 – 6000 MHz: 1,6 dB 0,3 – 7500 MHz: 3,2 dB Typical with frequency correction ON 0,3 – 7500 MHz: 0,4 dB	With frequency correction OFF 0,1 – 150 MHz: 0,4 dB 0,05 – 6000 MHz: 1,6 dB 0,03 – 7500 MHz: 3,2 dB Typical with frequency correction ON 0,05 – 7500 MHz: 0,4 dB
Dynamic range	Single range 0,14 – 140 V/m (60 dB)	Single range 0,5 – 500 V/m (60 dB)
Linearity	0,4 dB @ 50 MHz / 0,3 – 100 V/m	0,4 dB @ 50 MHz / 1 – 500 V/m
Resolution	0,01 V/m	
Sensors	6 monopoles	
Isotropy	0,5 dB (0,3 dB typical) (@ 50 MHz)	0,5 dB (0,3 dB typical) (@ 50 MHz)
Overload	300 V/m	1000 V/m
Measured data	X-Y-Z axis	
Sampling	Simultaneous on X-Y-Z axis	
Sampling rate	22 S/s to 0,03 S/s, depending on filter setting	
Digital filter	2,3 to 28 Hz, low-pass, presettable	
Internal battery	3 V - 5 mAh, rechargeable Li-Mn	
Operation time	80 hours @ 0,4 S/sec., 28 Hz filter 60 hours @ 5 S/sec., 28 Hz filter	
Recharging time	48 hours for full operation time	
Internal data memory	Serial number - Calibration date - Calibration Factors - Firmware version	
Communication	Bidirectional Fiber optic link	
Fiber optic connector	HFBR-0500	
Fiber optic lengths	10 m, standard 20 / 40 m as options	
Fiber optic to PC connection	Fiber optic to RS232 converter RS232 to USB converter	
PC Software	Display of field, temperature and battery voltage measurements Setting of filters, sampling rate, frequency	
Operating temperature	-10°C ÷ +50°C	
Temperature reading	0,1 °C resolution	
Battery voltage reading	10 mV resolution	
Dimensions	53 mm overall (body, 17 mm dia.; sensor, 17 mm)	
Weight	25 g, including 1 m Fiber optic pigtail	
Probe mount	20 UNC female	

Ordering information

EP-600 Field probe 100 kHz – 9,25 GHz, 0,14 – 140 V/m
 EP-601 Field probe 10 kHz – 9,25 GHz, 0,5 – 500 V/m

Supplied with:

- 10 m fiber optic cable
- optical/RS232 adapter + RS232/USB adapter
- PC Utility Win-EP600 to display total field and setup
- battery charger

Optional accessories

FO-EP600/20 Fiber optic cable, 20 m
 FO-EP600/40 Fiber optic cable, 40 m
 SB-10 Programmable switching box, 10 inputs

PIM a brand of

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 an  Communications Company

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