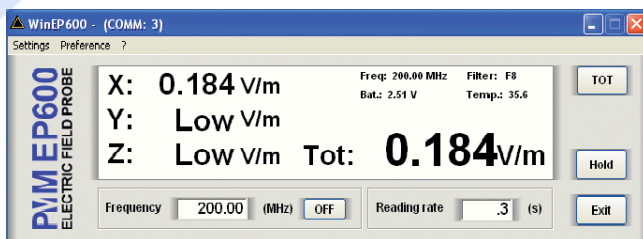




PMM EP-600, EP-601, EP-602 USB/RS232 Electric Field Probes



The all-in-one that set the standard for miniature optically coupled broadband E-field isotropic probes

Main features

- 5 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); 1,5 - 1500 V/m (EP-602)
- Symmetrical dipole 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 the PMM EP-600 series 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 RF-transparent holder tip

Common specifications

Resolution	0,01 V/m
Sensors	Six monopoles
Measurement mode	X – Y – Z axis simultaneous sampling
Sampling rate	22 to 0,03 Samples/s depending on filter setting
Digital filtering	2,3 to 28 Hz, low-pass
Internal battery	3 V – 5 mA/h, Li-Mn rechargeable
Operation time	80 hours @ 0,4 S/s, 28 Hz filter 60 hours @ 5 S/s, 28 Hz filter
Recharging time	48 hours for full operation time
Internal data memory	Serial nr. – Calibration factors & date – Firmware version
Communication	Bidirectional fiber optic link
Fiber optic connector	HFBR-0500
Fiber optic length	10 m, standard 20/40 m options
Fiber optic to PC connection	Fiber optic to RS232 converter RS232 to USB converter
PC software	Display of field, temperature, battery voltage Setting of filters, sampling rate, frequency
Operating temperature	-10 ÷ +50 °C
Temperature reading resolution	0,1 °C
Battery voltage reading resolution	10 mV
Dimensions	53 mm overall (body: 17 mm dia.; sensor, 17 mm each)
Weight	25 g, incl. 1 m fiber optic pigtail
Probe holder tip	¼ 20 UNC female

Specifications

	EP-600	EP-601	EP-602
Frequency range	100 kHz – 9,25 GHz	10 kHz – 9,25 GHz	5 kHz – 9,25 GHz
Flatness	Frequency correction OFF 1 – 150 MHz: 0,8 dB 0,5 – 6000 MHz: 1,6 dB 0,3 – 7500 MHz: 3,2 dB	Frequency correction OFF 0,1 – 150 MHz: 0,4 dB 0,05 – 6000 MHz: 1,6 dB 0,03 – 7500 MHz: 3,2 dB	Frequency correction OFF 0,05 – 150 MHz: 0,4 dB 0,05 – 6000 MHz: 1,6 dB 0,03 – 7500 MHz: 3,2 dB
	Frequency correction ON, typical 0,3 – 7500 MHz: 0,4 dB	Frequency correction ON, typical 0,05 – 7500 MHz: 0,4 dB	Frequency correction ON, typical 0,05 – 7500 MHz: 0,4 dB
Dynamic range	0,14 – 140 V/m 60 dB single range	0,5 – 500 V/m 60 dB single range	1,5 – 1500 V/m 60 dB single range
Linearity	0,4 dB @ 50 MHz / 0,3 – 100 V/m	0,4 dB @ 50 MHz / 1 – 500 V/m	0,4 dB @ 50 MHz / 1,5 – 1500 V/m
Overload	300 V/m	1000 V/m	3000 V/m

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
EP-602	Field probe 5 kHz - 9,25 GHz	1,5 - 1500 V/m

Supplied with:

- 10 m fiber optic cable
- Optical/RS232 adapter + RS232/USB adapter
- PC Utility WIN-EP600
- Charging fixture, AC charger, tripod mounting tip
- Standard calibration certificate

Options:

- FO-EP600/20 Fiber optic cable, 20 m
- FO-EP600/40 Fiber optic cable, 40 m
- Accredited Certificate



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Narda Safety Test Solutions Srl
Via Leonardo da Vinci, 21/23
20090 Segrate (Milano) - ITALY
Phone.: +39 02 269987-1
Fax: +39 02 269987-00
support@narda-sts.it
www.narda-sts.it