Established 1981
Advanced Test Equipment Rentals
www.atecorp.com 800-404-ATEC (2832)

EP-600 series

USB/RS232 Electric Field Probes

EP-600 series features EP-600, EP-601, EP-602, EP-603

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

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 solution 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 on request.

Main Features

- 5 kHz to 18 GHz frequency range
- 60 dB dynamic, single range
- 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: 25 g only!

PMM A BRAND OF narda Safety Test Solutions® an L3 Communications Company

EP-600, EP-601, EP-602, EP-603

USB/RS232 Electric Field Probes

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 settings
Digital filtering	Low-pass 2,3 to 28 Hz; 80 dB notch 50/60 Hz
Internal battery	3V - 5 mA/h, Li-Mn rechargeable
Operation time	80 hours @ 0,4 S/s, 28 Hz filter 60 hours @ 5 S/s, 28Hz filter
Recharging time	48 hours for full operation time Partial charging allowed, e.g.: 8 hrs rech. = 12 hrs operation @ 5 S/s 1 hr rech. = 5 hrs operation @ 0,4 S/s
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	Fiber optic to RS232 converter RS232 to USB converter
PC software	Displays field, temperature, battery Sampling, filters, averaging, frequency setting Manual data logging as text file
Operating temperature	-10 °C + 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	1/4 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
EP-602 Field probe 5 kHz - 9,25 GHz 1,5 - 1500 V/m
EP-603 Field probe 300 kHz - 18 GHz 0,17 - 170 V/m

Supplied with:

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

Options:

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

Main specifications (for full information please refer to the User Manual)

	EP-600	EP-601	EP-602	EP-603
Frequency Range	100 kHz - 9,25 GHz	10 kHz - 9,25 GHz	5 kHz - 9,25 GHz	300 kHz - 18 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 ON, typical 0,3 - 7500 MHz: 0,4 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 ON, typical 0,05 - 7500 MHz: 0,4 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 ON, typical 0,05 - 7500 MHz: 0,4 dB	Frequency correction OFF 3 - 8200 MHz: 1,4 dB 1 - 12000 MHz: 2,4 dB 0,6 - 1800 MHz: 3,8 dB Frequency correction ON, typical 0,3 - 18000 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	0,17 - 170 V/m 60 dB single range
Overload	300 V/m	1000 V/m	3000 V/m	350 V/m

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EP600-FEN-30200 - Specifications subject to changes without prior notice