

PMM EHP200

Electric & Magnetic Fields Analyzer 9 kHz - 30 MHz

PMM's new E-H fields analyzer model EHP200 has been designed for accurate, stand-alone and PC-based measurements of both electric (0,02 to 1000 V/m) and magnetic (6 mA/m to 300 A/m) fields, in the 9 kHz - 30 MHz frequency range.

The robust housing sized only 96 x 96 x 115 mm holds both field sensors and electronic measuring circuitry.

Separate 3 axis and total values (peak and average) are measured with exceptional flatness and linearity of $\pm 0,3$ dB. Results are expressed in V/m, A/m, μT , mW/cm^2 , W/m^2 .

The EHP200 features built-in spectrum analysis with maximum IF resolution of 1 kHz for detailed measurements of E and H field intensity vs. frequency with dynamic range of 80 dB.

Power supply by internal rechargeable Li-Ion battery of up to 8 hours of continuous operation, or from external 10 ÷ 15 VDC source. AC adapter provided.

The EHP200 is controlled by the PMM's PC program, and measurements are sent in real time through the optical fiber link. An auxiliary input allows for measuring the frequency spectrum of external signals from any other RF device.

Thanks to its very small size and optical fiber link, the EHP200 does not influence the electromagnetic fields to measure, thus ensuring more accurate and sensitive measurements.

The EHP200 is particularly suitable for nearby measurements of LW-AM-SW transmitters, metal detectors, and any other measurements of RF signal in the 9 kHz - 30 MHz range, with great advantages wherever the conventional antennas are inadequate due to their physical dimensions and cable influence.



Electric Fields 0,02 to 1000 V/m
Magnetic Fields 0,6 mA/m to 300 A/m



GENERAL SPECIFICATIONS

Electric & Magnetic Fields Analyzer PMM EHP200

	Electric Field	Magnetic Field Mode A	Magnetic Field Mode B	AUX Input
Frequency range	9 kHz ÷ 30 MHz	9 kHz ÷ 3 MHz	300 kHz ÷ 30 MHz	9 kHz ÷ 30 MHz
Measurement range @ 10 kHz RBW with preamplifier ON	0,1 ÷ 1000 V/m 0,02 ÷ 200 V/m	30 mA/m ÷ 300 A/m 6 mA/m ÷ 60 A/m	3 mA/m ÷ 30 A/m 0,6 mA/m ÷ 6 A/m	-80 ÷ 0 dBm -94 ÷ -14 dBm
Dynamic range	> 80 dB			
Resolution	0,01 V/m	1 mA/m	0,1 mA/m	0,01 dB
Sensitivity @ 10 kHz RBW with preamplifier ON	0,1 V/m 0,02 V/m	30 mA/m 6 mA/m	3 mA/m 0,6 mA/m	-80 dBm -94 dBm
Flatness	± 0,5 dB @ 20 V/m	± 0,5 dB @ 53 mA/m	± 0,5 dB @ 53 mA/m	± 0,3 dB @ -10 dBm
Isotropy @ 1 MHz	± 0,8 dB	± 0,8 dB	± 0,8 dB	---
Linearity @ 1 MHz	± 0,3 dB			
Typical accuracy @ 1 MHz	± 0,8 dB @ 20 V/m	± 0,8 dB @ 53 mA/m	± 0,8 dB @ 53 mA/m	± 0,3 dB @ -10 dBm
SPAN	0 to FULL SPAN			
IF Filters	1 kHz – 3 kHz – 10 kHz – 30 kHz – 100 kHz – 300 kHz			
Rejection to E fields	---	> 20 dB	> 20 dB	---
Rejection to H fields	> 20 dB	---	---	---
Calibration	internal E ² PROM			
Temperature error	0,02 dB/°C			
Dimensions	96 x 96 x 115 mm			
Weight	550 g			

Preamplifier	selectable ON/OFF, 14 dB
Units	V/m, A/m, μ T, mW/cm ² , W/m ²
Internal battery	3,7 V – 3,6 Ah Li-Ion, rechargeable
Operation	> 8 hours
Recharging time	< 8 hours
External supply	10 ÷ 15 VDC, I = approx. 500 mA
Optical fiber connection	up to 80 m
Firmware updating	through the optical link
Self test	automatic at power on
Operating temperature	-10 to +50°C
Storage temperature	-20 to +70°C

Supplied accessories	<ul style="list-style-type: none"> • FO-8053/10, optical fiber cable (10 m) • 8053-OC Optical Serial Converter • 8053-BC, battery charger • Power supply adapter • Stand, in plastic material • PC program
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Optional accessories	<ul style="list-style-type: none"> • SB-10, Switching Control Box • FO-8053/10, optical fiber cable (10 m) • FO-8053/20, optical fiber cable (20 m) • FO-8053/40, optical fiber cable (40 m) • FO-8053/80, optical fiber cable (80 m) • 8053-BC, spare battery charger • TR-02A, tripod • TT-01, telescopic stand with bag
-----------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Sales Office
Via L. da Vinci, 21/23 • 20090 Segrate • Italy
Tel. +39.02.26952421 • Fax +39.02.26952406
E-mail: pmm@pmm.it • Internet: <http://www.pmm.it>

Distributed by: