

The **PMM 8000Plus** measuring system for conducted and radiated interference performs (either manually or automatically) all the measurements requested by several standards in the 9 kHz – 1.2 GHz frequency range.

The **PMM 8000Plus** system is driven via RS232 interface from every Windows based PC, for easy one-click operations. Both digital and analog data are displayed on the PC screen with simultaneous Peak, Quasi-Peak and Average detectors. The automatic mode of operation allows accurate and fast measurements: the operator is only requested to preset the frequency band and the standard; the receiver will execute a high speed sweep with Peak detection: when, on those frequencies where the level was found close or exceeding the specification reference mask, the **PMM 8000Plus** will turn on the Quasi-Peak detector.



SMART QUASI-PEAK FOR INTELLIGENT MEASUREMENT

This innovative approach offers an incomparable help to the designer to perform fast and smart measurements. The **PMM 8000Plus** can turn on the Qpeak detector only when the interference signals are over or close to the selected limit of a user defined distance in dB; but instead of capturing all signals (like conventional receivers or spectrum analyzers), a specific maximum number of measurements can be selected. For example, if your interferences are almost over the limit, the **PMM 8000Plus** has to perform an extremely high number of measurements consuming a lot of time (500 ms for each points measured). Instead, if you select 20 or 30 peaks, you spend only 10 or 15 seconds. Also, all these frequencies can be automatically saved into a sweep trough any frequency table using one or all three detectors.

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	Performance Limits
FREQUENCY RANGE	9 kHz to 1.2 GHz (Input A) 9 kHz to 30 MHz (Input B with Pulse Limiter)
RESOLUTION	10 Hz (Range 9 kHz to 150 kHz) 100 Hz (Range 150 kHz to 1.2 GHz)
SETTING ERROR	$< 2 \times 10^{-6}$
RF INPUT	Z_{in} 50 Ω , built in N connector (Input A) Z_{in} 50 Ω , built in BNC connector (Input B)
VSWR	< 1.2 with ≥ 10 dB RF attenuation; < 2 with 0 dB RF attenuation
OSCILL. RE-RADIATION AT RF INPUT	< 20 dB μ V
INTERFERENCE REJECTION	> 80 dB
PREAMPLIFIER GAIN	10 dB
PRESELECTOR	(7 fixed-tuned and 5 tracking filters)
MAXIMUM INPUT LEVELS	(without equipment damage)
SINE WAVE AC VOLTAGE	127 dB μ V
PULSE SPECTRAL DENSITY	90 dB μ V/MHz
DISPLAY UNITS	dB μ V, dB μ V/m, dBm, dB μ A, dBpW
RF OUTPUT (TRACKING GENERATOR)	Z_{out} into 50 Ω , N connector
FREQUENCY RANGE	9 kHz to 1.2 GHz

SPECIFICATIONS

LEVEL	90 dB μ V \pm 1 dB
MEASURING ERROR (AFTER CALIBRATION)	
FREQUENCY RANGE	9 kHz to 150 kHz \pm 1.5 dB 150 kHz to 500 MHz \pm 1 dB 500 MHz to 1 GHz \pm 1.5 dB 1 GHz to 1.2 GHz \pm 2 dB
INTERMEDIATE FREQUENCY	Range 9 kHz to 30 MHz... 139.3/ 10.7/ 0.455 MHz Range 30 MHz to 1.2 GHz 1889.3/ 139.3/ 10.7 MHz
IF BANDWIDTH (-6 dB)	0.2/ 9/ 120 KHz (CISPR tolerance)
LEVEL MEASURING TIME	Peak, Quasi-peak and Average parallel detectors: 2 ms to 30 sec. (CISPR default)
DEMODULATION	AM/FM with built-in loudspeaker
SPECTRUM	
FREQUENCY RANGE	150 kHz to 1.2 GHz
FREQUENCY STEP (DEPENDING UPON THE SPAN)	2.5 kHz to 10 MHz
SPAN (DEPEDNING UPON THE CENTER FREQUENCY)	250 kHz to 10 MHz
MARKERS	Center and highest frequency
MEASURING ERROR	See receiver section
OPERATING TEMPERATURE	10° to 40° C
SIZE (W x L x H)	470 x 430 x 110 mm
WEIGHT	8 Kg.

OPTIONS

L1-150	Single line LISN, 150A (50 Ω // 1 Ω + 5 μ H)
L2-150	Two lines, Single phase, 16A LISN, (50 Ω // 5 Ω + 50 μ H)
L3-32	Four lines, 3-phase, 32A LISN, (50 Ω // 5 Ω + 50 μ H)
L3-64	Four lines, 3-phase, 64A LISN, (50 Ω // 5 Ω + 50 μ H)
L3-100	Four lines, 3-phase, 100A LISN (50 Ω // 5 Ω + 50 μ H)
L3-500	Four lines, 3-phase, 350A LISN, (50 Ω // 5 Ω + 50 μ H)
SHC-1	35 dB Voltage probe, 1500 Ω
PL-01	Pulse Limiter
SHC-2	30 dB Voltage probe, 1500 Ω
VNET-150	VNET
VAN VEEN LOOP	
DUMMY LAMP (SPECIFY SIZE)	
BALANCED TO UNBALANCED TRANSFORMER	

FEATURES:

- Fully CISPR 16 compliance
- From 9 kHz to 1.2 GHz
- 3 simultaneous detectors
- Two inputs
- PC driven
- Small size and weight
- Automatic Correlation for GTEM to OATS
- Automatic LISN control Built in 10 dB Preamplifier
- Up to 4 antenna factor tables
- Tracking generator



**PMM 8000PLUS
BACK PANEL**