

# PMM 7010

## All-in-one EMI Receiver



### Applications

Measurements of conducted and radiated disturbances according CISPR, IEC-EN standards.

### Description

The new EMI Receiver **PMM 7010** matches the legendary operability of all PMM receivers with the most advanced digital technology and with the completeness of the software PMM Emission Suite. Specifically designed for reliable EMC pre-testing and debugging, the PMM 7010 helps reducing the time-to-market of new products.

### Main characteristics

Frequency range	150 kHz – 1 GHz, single input
Resolution (RBW)	9 kHz, 120 kHz (compliant to CISPR 16-1-1) 3, 10, 30, 100, 300 kHz (- 6 dB)
Demodulation	AM-FM, internal loudspeaker
CISPR Detectors	Peak, Quasi-Peak, Average, RMS, C-Average, RMS-Average (option) Time-saving Smart Detector function analyzing critical frequencies only
Power supply	Universal AC adapter and 12V DC
LISN (internal)	150 kHz - 30 MHz, 2x16 A 250V, DC ÷ 60 Hz
Software	PMM Emission Suite
I/O	RS232, USB, automatic control of external LISNs and RF switch (SBRF-4)

### Accessories

The range of accessories includes: LISN up to 300 A, antennas, Large Loop Antenna, voltage probes etc. Further information can be found in our web pages [www.narda-sts.it](http://www.narda-sts.it)

## PMM 7010 SPECIFICATIONS

<b>Frequency range</b> Resolution Uncertainty	150 kHz ÷ 1 GHz 10 Hz < 3 ppm
<b>RF input</b> VSWR @ input attenuator = 10 dB @ input attenuator = 0 dB  Attenuator  Pulse limiter	$Z_{in}$ 50 $\Omega$ , N fem. < 1.2 < 1.2; < 1.4 above 30 MHz  0 ÷ 35 dB in 5 dB steps 0 ÷ 50 dB in 2 dB steps above 30 MHz Internal, active for conducted measurements range (0,15 ÷ 30 MHz)
<b>Maximum input level</b> (without damage) Sinusoidal voltage Pulsed spectral density	140 dB $\mu$ V (2 W) 100 dB $\mu$ V/MHz
<b>IF bandwidth (RBW)</b>	3, 10, 30, 100, 300 kHz: -6 dB 9, 120 kHz: compliant to CISPR 16-1-1
<b>Noise level</b> (Hold time = 1 s)	0.15 ÷ 30 MHz (9 kHz RBW) < 14 dBuV (QP) < 7 dBuV (AVG) 30 ÷ 1000 MHz (120 kHz RBW) < 14 dBuV (QP) < 7 dBuV (AVG)
<b>Spurious</b> (Peak det., Hold time = 10 ms)	< 20 dB $\mu$ V
<b>CISPR detectors</b>	Simultaneous: Peak, Quasi-Peak, Average, C-Average, RMS, RMS-Average Smart Detector function
<b>Hold time</b>	According to CISPR 16-1-1 0.2 ms ÷ 120 s
<b>PES – PMM Emission Suite PC software</b>	Creation of scan tables, limits, factors Reporting, export/import of measurements and settings Trace comparison, marker, zoom, peaks finder
<b>Operating modes</b>	Sweep: automatic scanning receiver Manual: manual tuning receiver Analyzer: spectrum analyzer mode
<b>Measuring units</b>	dBm, dB $\mu$ V, dB $\mu$ A, dBpW, dB $\mu$ V/m, dB $\mu$ A/m, dBpT Display dynamic: 80 ÷ 200 dB
<b>Uncertainty</b>	± 1.0 dB (150 kHz ÷ 1 GHz S/N > 20 dB)
<b>Compliance to CISPR 16-1-1</b>	Full compliance of Quasi-Peak detector for PRF ≥ 20 Hz
<b>Demodulation</b>	AM – FM with internal loudspeaker and volume control
<b>I/O</b>	RS-232, USB, remote control for other PMM LISN
<b>Operating temperature</b>	-5° ÷ + 45°C
<b>Power supply</b>	12 V DC, 0.8A; universal AC adapter
<b>Internal LISN</b> Frequency range Rated current Maximum line voltage Line frequency CISPR-equivalent circuit EUT socket	150 kHz ÷ 30 MHz 16A 250 V AC – 350 V DC DC ÷ 60 Hz 50 $\Omega$ // (5 $\Omega$ + 50 uH) SCHUKO 2P+E
<b>Dimensions</b>	235x105x335 mm
<b>Weight</b>	5.0 kg

### Ordering information

7010 EMI receiver 150 kHz - 1 GHz

Includes:

- AC adapter mod. 9010/AC
- PC software PMM Emission Suite
- Calibration certificate
- USB, RS-232 cables
- User manual

### OPTIONS

- 9010/RAV CISPR RMS-AVG detector
- 9010/RMA 19" rack-mounting kit

# PMM

a brand of



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