

Dual Channel RF Power Meter Series

PwrM3G : 50MHz – 3GHz, -75 to +20dBm

PwrM8G: 50MHz – 8 GHz, -50 to +10dBm

The **PwrMxG** series represents various broadband power meter devices perfectly suited to measure RF carrier's power (e.g. satellite, cable, terrestrial). The **PwrMxG** is available either as a compact handheld unit or a modular type 1RU/19" rack mount chassis that can hold up to 4 power meter modules (mixed population, hot-swappable). The **PwrMxG** is a perfect solution for broadband monitoring applications, capable for simultaneous monitoring of 2 to 8 RF signals within a frequency range of 50MHz - 3000MHz (PwrM3G) and/or 50MHz - 8000MHz (PwrM8G).

The **PwrMxG** power meters provide a large dynamic range with high accuracy assuring excellent and precise RF power monitoring at any time. Other beneficial features such as threshold monitoring/alarming, minimum and maximum RF power monitoring and recording along with a user-friendly chart on the WebGUI that also displays the different RF power values over a period of time (history recording) are also included. The **PwrMxG** has also a function, which allows the user to compensate any offsets, for example for a directional coupler and/or to calibrate the power meter at the desired frequency.

The **PwrMxG** has a front panel OLED display and keypads allowing easy local configuration and RF monitoring. A rear side Ethernet-Interface allows remote configuration and monitoring (WebGUI, SNMP).



FEATURES & BENEFITS

- Broadband frequency range 50MHz – 3GHz (PwrM3G) or 50MHz – 8GHz* (PwrM8G)*
- Available as a compact handheld module, also for integration into a 4-Slot 1RU/19" chassis
- Supports mixed population of PwrM3G (3GHz) and/or PwrM8G (8GHz) within 1RU/19" chassis
- Hot swappable and easy replaceable power meter modules in 1RU/19" chassis
- 1RU/19" chassis with integrated power supply and 4 port Ethernet switch
- Simultaneous monitoring of 2 to max. 8 signals
- Wide dynamic range
- Threshold monitoring and alarming
- Offset compensation for cables and directional couplers
- Minimum & Maximum RF power monitoring and recording
- Calibration feature at the desired frequency
- WebGUI chart displays different RF power values (history recording)
- Local monitoring & configuration via front panel OLED Display/keypads
- Remote monitoring & configuration via Ethernet-Interface (WebGUI, SNMP)

*other frequency ranges available upon request

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TECHNICAL SPECIFICATIONS

PwrM3G, 50MHz – 3GHz, 95dB Dynamic Range: -75 to +20dBm

- **Dimensions:** 125 x 105mm handheld module
- **Weight:** 420g (handheld module)
- **Power supply:** 12VDC , <6W
- **Frequency range:** 50 – 3000MHz
- **Dynamic range:** 95dB (-75dBm...+20dBm)
- **RF power accuracy:** ±1dB, ±1,5dB max.
- **Input connectors:** 2 x 50Ohm SMA(f)
- **Max. RF input power:** +30dBm
- **Local configuration:** OLED-Display/keypads
- **Remote configuration:** RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP)
- **Operating temperature:** -20°C...45°C
- **Storage temperature:** -20°C...70°C
- **Humidity:** 90%, non-condensing
- **RoHS:** Compliant

PwrM8G, 50MHz – 8GHz, 60dB Dynamic Range: -50 to +10dBm

- **Dimensions:** 125 x 105mm handheld module
- **Weight:** 420g (handheld module)
- **Power supply:** 12VDC , <6W
- **Frequency range:** 50 – 8000MHz
- **Dynamic range:** 60dB (-50dBm...+10dBm)
- **RF power accuracy:** ±1,5dB typ., ±2,0dB max.
- **Input connectors:** 2 x 50Ohm SMA(f)
- **Max. RF input power:** +30dBm
- **Local configuration:** OLED-Display/keypads
- **Remote configuration:** RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP)
- **Operating temperature:** -20°C...45°C
- **Storage temperature:** -20°C...70°C
- **Humidity:** 90%, non-condensing
- **RoHS:** Compliant

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PwrM-4Slot Chassis, 19"/1RU Chassis for max. 4 x PwrMxG modules

- **Dimensions:** 1RU/19" rack mount, 280mm deep
- **Weight:** ~5kgs. (fully populated)
- **Power supply:** 85...265V, 50/60Hz, swappable (rear side)
- **Power consumption:** <24W
- **Number of slots:** 4 (supports mixed population of PwrM3G & PwrM8G)
- **N° of RF inputs:** max. 8
- **Dynamic range:** see power meter specifications
- **RF power accuracy:** see power meter specifications
- **Remote configuration:** RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP), network switch integrated
- **Operating temperature:** -20°C...45°C
- **Storage temperature:** -20°C...70°C
- **Humidity:** 90%, non-condensing
- **RoHS:** Compliant

PwrM-4Slot Chassis D150MM, 19"/1RU Chassis short version for max. 4 x PwrMxG modules

- **Dimensions:** 1RU/19" rack mount, 150mm deep
- **Weight:** ~4kgs. (fully populated)
- **Power supply:** External 85...265V, 50/60Hz, Power Supply via rearside connector
- **Power consumption:** <24W
- **Number of slots:** 4 (supports mixed population of PwrM3G & PwrM8G)
- **N° of RF inputs:** max. 8
- **Dynamic range:** see power meter specifications
- **RF power accuracy:** see power meter specifications
- **Remote configuration:** RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP), via 4 x network connector
- **Operating temperature:** -20°C...45°C
- **Storage temperature:** -20°C...70°C
- **Humidity:** 90%, non-condensing
- **RoHS:** Compliant

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ORDER INFORMATION

Type	Part N°	Short Description	Input Connectors
PwrM3G	9001028	3GHz Handheld Power Meter (excl. 12VDC power supply)	2 x 50Ohm SMA(f)
PwrM8G	9001031	8GHz Handheld Power Meter (excl.12VDC power supply)	2 x 50Ohm SMA(f)
PwrM-4Slot-Chassis	9001032	4 Slot Power Meter 1RU Chassis	n.A.
PwrMxG-PSA12V	9001067	Power Supply Adapter AC-90-230V, DC12V3A	n.A.
PwrM-4Slot-Chassis-D150MM	9001073	4 Slot Power Meter 1RU Chassis 150mm deep with PSU	n.A.