Dual Channel RF Power Meter 50MHz – 3GHz

...designed for perfect signals

BETTER MADE IN GERMANY

PwrM3G: 50MHz – 3GHz, -75 to +20dBm

The PwrM3G represents various broadband power meter devices perfectly suited to measure RF carrier's power (e.g. satellite, cable, terrestrial). The PwrM3G 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 PwrM3G 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).

The PwrM3G 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 PwrM3G 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 PwrM3G 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
- Available as a compact handheld module, also for integration into a 4-Slot 1RU/19" chassis
- Supports mixed population of PwrM3G (3GHz), PwrM8G (8GHz) and/or PwrM40G (40GHz) within 1RU/19" chassis
- Hot-swappable and easy replaceable power meter modules
- 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)

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TECHNICAL SPECIFICATIONS

Dimensions:	125 x 105mm handheld module
Weight:	420g (handheld module)
Power Supply:	12VDC, <6W
Frequency Range:	50 – 3000MHz
Dynamic Range:	95dB (-75dBm to +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 to 45°C
Storage Temperature:	-20°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

PwrM-4Slot Chassis

	19"/1RU Chassis	D150MM, 19"/1RU Chassis short version
Dimensions:	1RU/19" rack mount, 280mm deep for max. 4 x PwrM3G modules	1RU/19" rack mount, 150mm deep for max. 4 x PwrM3G modules
Weight:	~5kgs. (fully populated)	~4kgs. (fully populated)
Power Supply:	85 – 265V, 50/60Hz, swappable (rear side)	External 85 – 265V, 50/60Hz, Power Supply via rear-side connector at the modules
Power Consumption:	<24W	<24W
Number of Slots:	4 (supports mixed population of PwrM3G, PwrM8G and PwrM40G)	4 (supports mixed population of PwrM3G, PwrM8G and PwrM40G)
N° of RF Inputs:	max. 8	max. 8
Dynamic Range:	see power meter specifications	see power meter specifications
RF Power Accuracy:	see power meter specifications	see power meter specifications
Remote Configuration:	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP), network switch integrated	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP), via network connector at module
Operating Temperature:	-20°C to 45°C	-20°C to 45°C
Storage Temperature:	-20°C to 70°C	-20°C to 70°C
Humidity:	90%, non-condensing	90%, non-condensing
RoHS:	Compliant	Compliant

ORDER INFORMATION

Type	Type-No.:	Short Description	Input Connectors
PwrM3G	9001028	3GHz 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.