



Dual Channel RF Power Meter 100MHz – 40GHz, 43dB Dynamic Range

...designed for perfect signals



PwrM40G: 100MHz – 40GHz, -40 to +3dBm

The PwrM40G represents broadband power meter device perfectly suited to measure RF in C, KU and KA Band.

The PwrM40G is available as a compact handheld unit or a modular type 1RU/19" rack mount chassis that can hold up to 4 power meter modules. The PwrM40G is a perfect solution for broadband monitoring applications, capable for simultaneous monitoring of 2 to 8 RF signals within a frequency range of 100MHz – 40GHz.

The PwrM40G 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/alarms, 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 PwrM40G 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 PwrM40G 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 100MHz – 40GHz
- ▶ 43dB Dynamic Range over full band
- ▶ Available as a compact handheld module, also for integration into a 4-Slot 1RU/19" chassis
- ▶ Hot-swappable and easy replaceable in 1RU/19" chassis
- ▶ 1RU/19" chassis with integrated power supply and 4 port Ethernet switch
- ▶ Simultaneous monitoring of 2 to max. 8 signals

- ▶ Threshold monitoring and alarming
- ▶ Offset compensation for cables and directional couplers
- ▶ Minimum & Maximum RF power monitoring and recording
- ▶ Calibration feature at the desired frequency
- ▶ Local & Remote monitoring & configuration
- ▶ Ethernet-Interface (WebGUI, SNMP), chart displays with different RF power values (history recording)

TECHNICAL SPECIFICATIONS

	PwrM40G, 100MHz – 40GHz	RF Input Power Dynamic Range: *Note 1
Dimensions:	125 x 105mm handheld module	Dynamic Range 1GHz: -40dBm to +3dBm
Weight:	420g (handheld module)	Dynamic Range 3GHz: -40dBm to +3dBm
Power Supply:	12VDC, <5W & PoE 44-57V	Dynamic Range 10GHz: -40dBm to +3dBm
Channels:	Two Independent Channels, Connectors Front Side	Dynamic Range 14GHz: -40dBm to +3dBm
Frequency Range:	100MHz – 40GHz	Dynamic Range 18GHz: -40dBm to +3dBm
Dynamic Range:	43dB ±1dB over full band	Dynamic Range 24GHz: -40dBm to +3dBm
Accuracy	±1dB	Dynamic Range 30GHz: -39dBm to +4dBm
Damage Power Level:	+15dBm	Dynamic Range 40GHz: -38dBm to +5dBm
Input Connectors:	2 x 50Ohm 2.92mm SMK(f)	
Local Configuration:	OLED-Display/keypads	
Remote Configuration:	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP)	
Sampling Rate	>100Samples/sec	
Measurement Functions:	Long Time Recording, Threshold Alarm, csv Export	
Operating Temperature:	-20°C to 45°C	
Storage Temperature:	-20°C to 70°C	
Humidity:	90%, non-condensing	
RoHS:	Compliant	<i>Note: *1: Design guaranteed dynamic range</i>

	PwrM-4Slot Chassis 19"/1RU Chassis	D150MM, 19"/1RU Chassis short version
Dimensions:	1RU/19" rack mount, 280mm deep, 4 Slots	1RU/19" rack mount, 150mm deep, 4 Slots
Weight:	~5kgs. (fully populated)	~4kgs. (fully populated)
Power Supply:	85 – 265V, 50/60Hz, swappable (rear side)	External 85 – 265V, 50/60Hz via rearside connector
Power Consumption:	<24W	<24W
Number of Slots:	4	4
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 4 x network connector
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
PwrM40G	9001084	40GHz Handheld Power Meter (excl. 12VDC power supply)	2 x 50Ohm SMK(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.
PwrM-ODB	9001327	Outdoor Box IP65, two slots, integrated power supply	n.A.