

# Dual Channel RF Power Meter

## 100MHz – 70GHz, 43dB Dynamic Range

Patented in the EU and GB / Patent no. EP 4 016 092 B1

...designed for perfect signals



**PwrM70G: 100MHz – 70GHz, -40 to +3dBm**

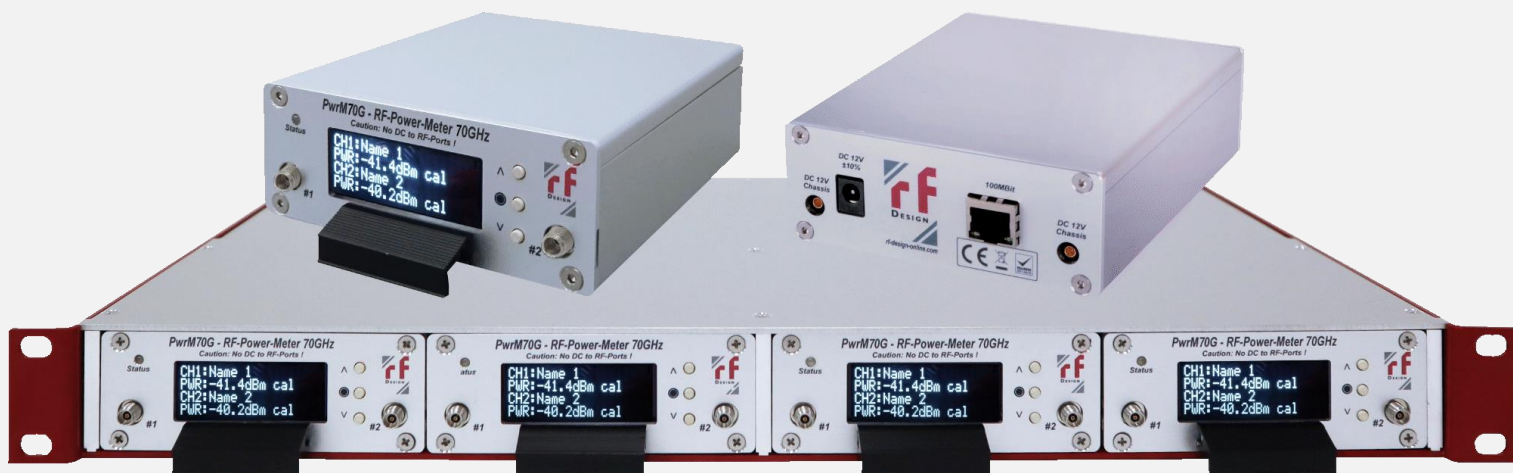
The PwrM70G represents broadband power meter device perfectly suited to measure RF in C, KU and KA Band.

The PwrM70G 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 PwrM70G is a perfect solution for broadband monitoring applications, capable for simultaneous monitoring of 2 to 8 RF signals within a frequency range of 100MHz – 70GHz.

The PwrM70G 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 PwrM70G 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 – 70GHz
- ▶ 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

	PwrM70G, 100MHz – 70GHz	RF Input Power Dynamic Range: *Note 1
<b>Dimensions:</b>	125 x 105mm handheld module	Dynamic Range 1GHz: -40dBm to +3dBm
<b>Weight:</b>	420g (handheld module)	Dynamic Range 3GHz: -40dBm to +3dBm
<b>Power Supply:</b>	12VDC, <5W & PoE 44-57V	Dynamic Range 10GHz: -40dBm to +3dBm
<b>Channels:</b>	Two Independent Channels, Connectors Front Side	Dynamic Range 14GHz: -40dBm to +3dBm
<b>Frequency Range:</b>	100MHz – 70GHz	Dynamic Range 18GHz: -40dBm to +3dBm
<b>Dynamic Range:</b>	43dB $\pm$ 1dB over full band	Dynamic Range 24GHz: -40dBm to +3dBm
<b>Accuracy</b>	$\pm$ 1dB	Dynamic Range 30GHz: -39dBm to +3dBm
<b>Damage Power Level:</b>	+15dBm	Dynamic Range 40GHz: -38dBm to +3dBm
<b>Input Connectors:</b>	2 x 50Ohm 1.35mm	Dynamic Range 50GHz: -40dBm to +0dBm
<b>Local Configuration:</b>	OLED-Display/keypads	Dynamic Range 60GHz: -40dBm to +0dBm
<b>Remote Configuration:</b>	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP)	Dynamic Range 70GHz: -36dBm to +1dBm
<b>Sampling Rate</b>	>100Samples/sec	
<b>Measurement Functions:</b>	Long Time Recording, Threshold Alarm, csv Export	
<b>Operating Temperature:</b>	-20°C to 45°C	
<b>Storage Temperature:</b>	-20°C to 70°C	
<b>Humidity:</b>	90%, non-condensing	
<b>RoHS:</b>	Compliant	Note: *1: Design guaranteed dynamic range

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

## ORDER INFORMATION

Type	Type-No.:	Short Description	Input Connectors
PwrM70G	9001385	70GHz Handheld Power Meter (excl. 12VDC power supply)	2 x 50Ohm 1.35mm
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.