



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. |