

## PM9001u

Portable USB Micro Power Meter  
50 to 850 MHz



English

The PORTABLE USB MICRO POWER METER is an excellent cost-effective solution for Root-Mean-Square (RMS) power measurement of radio frequency signals via USB communication.

Power information is displayed in real-time through a user-friendly graphical interface application, compatible with PC (Windows<sup>1</sup> / Linux<sup>2</sup> operating systems) or Android<sup>3</sup> smartphones.

This Plug and Play device features a robust design and is immune to Electromagnetic Interference (EMI). It comes with an USB-A connection cable for PCs and an USB On-the-Go (OTG) adapter for smartphones.

## General features

Robust device, designed to meet field operation needs;

Covers the frequency range of VHF DTV, UHF DTV, and FM Radios;

Does not require an external power source. Powered through USB bus of PC or smartphones;

Real-time measurements with a maximum acquisition rate of 10 samples per second;

Automatic temperature compensation. Maintains accuracy across the measurement frequency range despite variations in ambient temperature.

Included:

Case for transport and storage;

Applications for installation on PCs and Android<sup>3</sup> smartphones;

USB-A female to Micro USB male adapter;

USB-A female to USB-C male adapter;

Digital manual.

## Technical Features

### INPUT

Frequency range	50 MHz to 850 MHz
Input power range (dynamic range)	40 dB (-25 dBm to +15 dBm)
Input connector	N – male 50 Ω (adapter/ saver)
Input return loss	≤ -20 dB

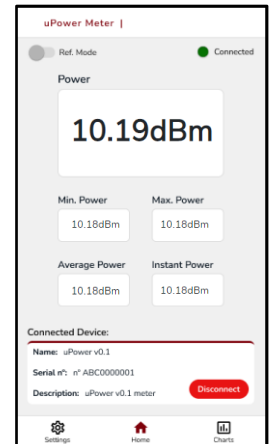
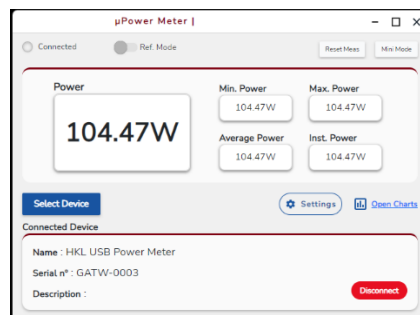
### OPERATIONAL FEATURES

Overall relative precision	0.1 dB (≈ 2.5% without averaging)
Overall relative accuracy	0.5 dB (≈ 10% of the true measurement value)
Measurement rate	10 samples per second
Power via USB bus	+5 Vdc ± 0.15 Vdc; 70 mA to 100mA
USB interface	Male USB-A Micro USB (adapter) USB-C (adapter)

### APP COMPATIBILITY

#### Versões

Windows<sup>1</sup> 10 or later (PC)  
Linux<sup>2</sup> LTS 21 or later (PC)  
Android<sup>3</sup> version 10 or later (Smartphone)

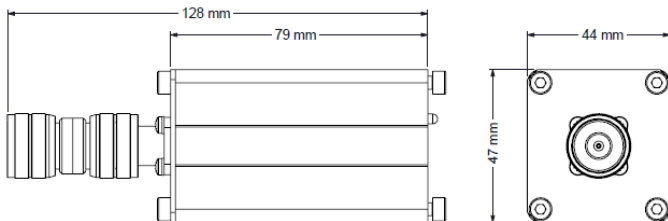


## ENVIRONMENTAL OPERATING FEATURES

**Ambient temperature** 0 °C to +50 °C

**Relative humidity** 0 to 95% non-condensing

## DIMENSIONS



**Weight** 250 g

**Case dimensions  
(Length x Width x Height)** 300 x 176 x 78 mm

## OPTIONAL ACCESSORIES

### Directional Coupler

1 sample Forward Power - N-Female 50Ω;  
1 sample Reflected Power - N-Female 50Ω;  
FM or VHF or UHF range;  
Fixed connection standards:  
EIA 7/8" with Flange or without Flange;  
Male or Female DIN 7/16"  
Male or Female N

### Directional Coupler EIA 1-5/8"

2 samples Forward Power - N-Female 50Ω;  
2 samples Reflected Power - N-Female 50Ω;  
With Flange or without Flange;  
FM or VHF or UHF range

### Directional Coupler EIA 3-1/8"

2 samples Forward Power - N-Female 50Ω;  
2 samples Reflected Power - N-Female 50Ω;  
With Flange or Without Flange;  
FM or VHF or UHF Range

### Adapters

N-Male – SMA-Female (cable)  
N-Male – N-Male (spare)

### Notes:

<sup>1</sup> Windows is a trademark of Microsoft Corporation.

<sup>2</sup> Linux is a trademark of Linus Torvalds.

<sup>3</sup> Android is a trademark of Google LLC.

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