INSTALLATION INSTRUCTIONS & USER GUIDE

USB POWER SENSOR PWR-6G+

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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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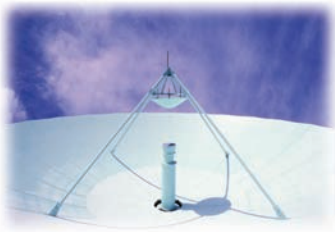

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INTRODUCTION

Traditionally, when you want to measure power of a signal source like an oscillator, frequency generator, mixer output or an amplifier you normally think of a bulky and expensive bench top power meter for the task. Not any more. Mini-Circuits' has developed a Universal Serial Bus (USB) enabled Power Sensor PWR-SEN-6G+ that breaks away from that norm. In conjunction with a power data analysis software, the PWR-SEN-6G+ ***Figure 1*** turns your laptop or desktop PC into an RF/Microwave Power Meter for measuring power of continuous wave (CW) signals from 1 MHz to 6 GHz.

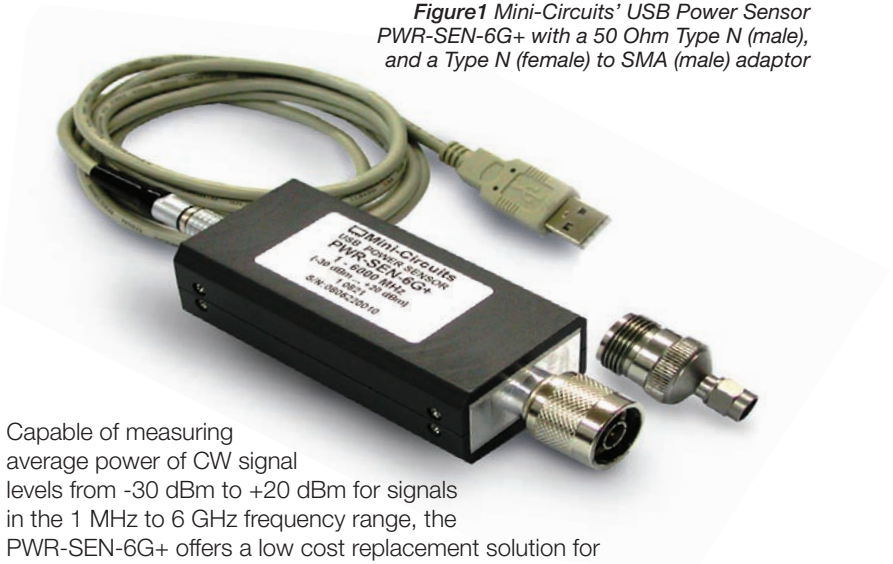

Figure1 *Mini-Circuits' USB Power Sensor PWR-SEN-6G+ with a 50 Ohm Type N (male), and a Type N (female) to SMA (male) adaptor*

Capable of measuring average power of CW signal levels from -30 dBm to +20 dBm for signals in the 1 MHz to 6 GHz frequency range, the PWR-SEN-6G+ offers a low cost replacement solution for conventional RF/Microwave power meters with the benefits of data storage, portability, post processing and Internet connectivity. In addition, unlike conventional bench top instruments, no external power supply is needed and it does not require any reference signal calibration. As a result, it offers lighter weight, and makes field operation and installation easy and simple. For attachment to a device under test (DUT), it offers a 50 Ohm Type N (male) connector. Additionally, for connection flexibility, it also comes with a Type N (female) to SMA male adaptor ***Figure 1***, while the USB interface cable connects the power sensor to a notebook or a PC with USB ports. In essence, it provides an easy plug-and-play USB connectivity to a PC, thereby, eliminating the need for a separate conventional power meter.

PERFORMANCE

Features

- Operating frequency range of 1 MHz to 6 GHz
- 50 dB dynamic range, -30 dBm to +20 dBm
- Good VSWR, 1.1:1 (typical)
- Accuracy: ±0.15 dBm (typical)
- Linearity at 25 C is ±0.1 dBm (typical)
- Measurement speed is 200 ms
- No calibration after powering on (plug-in and measure)
- No external power supply is needed
- 16 simultaneous testing channels
- Temperature compensated
- Fully loaded power data analysis software
- Averaging of measurements
- Scheduled data recording
- Multi-Sensor support
- Interface with test software

Key system requirements for the sensor are shown in ***Table 1***.
While absolute maximum power ratings are given in ***Table 2***.

Table1 System requirements

System	Requirements
Interface	USB 1.1/USB 2.0
Host Operating System	Windows 98, Windows XP, Windows Vista , Windows 2000
Hardware	Pentium III or higher, RAM 512 Mb, USB port

Table 2 Absolute maximum ratings

Parameter	Ratings
Operating temperature	0°C to 50°C
Storage temperature	-30°C to 70°C
Current (via host USB)	40 mA (+5 V)
DC voltage at RF port	15 V
CW power	+27 dBm

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SOFTWARE FEATURES

User friendly, easy to install software, *enables the user to record data and present it by:*

- Power Output vs. Time graph
- Text file
- Excel spreadsheet file

Measurements can be performed according to a time schedule defined by the user.

Furthermore, the software offers an option to define minimum and maximum limits of measurements, defining ranges of interest, so that any deviation from defined limits is recorded and marked with a tracer:
Power Output vs. Time graph will have red lines on the Power axis at defined limits.
Excel and Text files: any result which exceeds limit will be marked by an asterisk *.

For full details on software options, see ***page 11***

Getting Started and Software Setup

Insert the Mini-Circuits USB power sensor installation CD into the CDROM device. If installation does not start automatically, run install.exe from <CD drive> root directory. The Installation Window will appear, ***Figure 2***.

Figure 2 *Installation window*

Click on the “Install Now” box. Accept the license agreement and click continue, see ***Figure 3***.

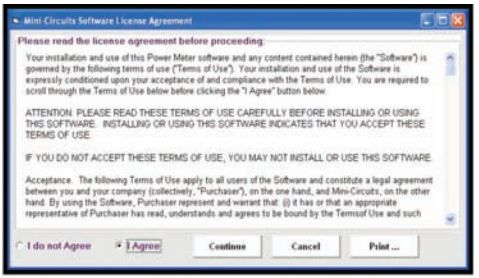

Figure 3 *Licence agreement*

Getting Started And Software Setup *continued*

The installation program will launch, to install Click on"OK" in the "Mini-Circuits USB Power Meter Setup" message box, see ***Figure 4***.

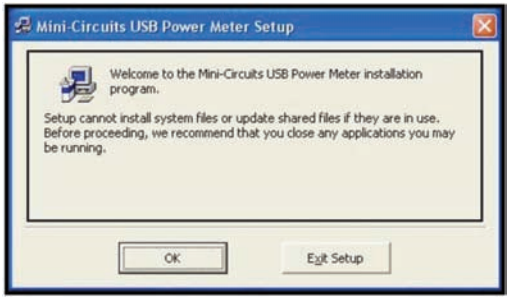

Figure 4 *Mini-Circuits USB Power Meter setup window*

The default directory for the program setup is "C:\ Program Files\ USB Power Meter \". Click on 'Change Directory' if you want to install under a different directory. Click the setup button to begin the installation of the USB Power Sensor. See ***Figure 5***.

Figure 5 *Setup window*

The Program Group message box will appear and you may change the Program Group name or leave it as "Mini-Circuits USB Power Meter". Click on "Continue" to proceed, see ***Figure 6***.

Figure 6 *Program group window*

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You have completed the Mini-Circuits USB Power Meter setup successfully, Click "OK", see ***Figure 7***.

Figure 7 *Mini-Circuits USB Power Meter setup Complete*

Installation of USB Power Sensor Hardware

With the Mini-Circuits USB power sensor installation CD into the CDROM device. Connect the power sensor to the PC USB port.
The New Hardware Wizard window will appear, *Select "No, not this time"* and Click Next to continue, see ***Figure 8***.

Figure 8 *Found new hardware window*

Figure 9 *Found new hardware wizard window*

The "Welcome to the Found New Hardware Wizard" window will appear, Select *"Install from a list or a specific location (Advanced)"* and Click Next to continue, see ***Figure 9***.

Installation Of USB Power Sensor Hardware *continued*

The Found New Hardware Installation Options window will appear: see ***Figure 10***.
Select the first option: “Search for the best driver in these locations.”
Click and CLEAR the check mark in the “Search removable media (floppy, CD-ROM…)” box.
Click and Check ”Include this location in the search:” box.
Click on Browse to choose location of the drivers for the Mini-Circuits USB Power Sensor on the installation CD, <drive>:\drivers (where <drive> is your CD-ROM drive letter, for example; ‘D:/drivers’). Click Next to continue.

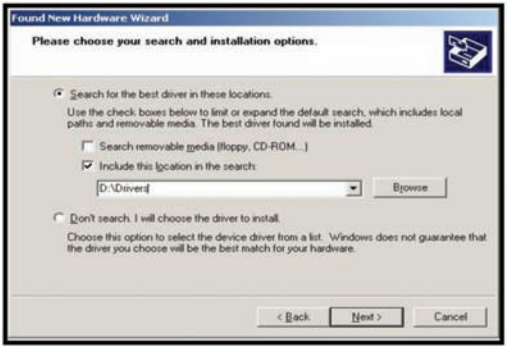

Figure 10 *Found new hardware wizard installation options window*

A Hardware Installation warning window will appear,
Click on “Continue Anyway”, see ***Figure 11***.

Figure 11 *Hardware installation warning window*

The installation of the USB Power Senor drivers is complete,
Click on “Finish” to close the wizard.

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MEASUREMENT INSTRUCTIONS

After installation of the software and driver for activating the Power Sensor, measurements can be run.

Connecting The Power Sensor

Plug in the push-pull connector to the end of the USB Power Sensor.
Plug in the USB connector to the USB port on the computer.
Run the Mini-Circuits USB Power Meter software.
In few seconds the main screen will appear, see ***Figure 13***, and the Power Meter is immediately available for measurements.

For achieving maximum accuracy, input your desired Frequency in the Freq (1-6000MHz) box. Upon entering the Frequency in this window the results, with respect to this Frequency, is instantly shown and without the need to click any button to restart testing or refresh the screen.

Figure 13 Power meter software main screen

Recording Data

For recording data, click on the "Record" box and another window will open, "Power Meter - Recording", see ***Figure 14***. There are two recording options;

1) Start Recording Now

Test data will start recording immediately. The Record box on the main screen will change to "Recording" and turn red. To stop recording, click on "Stop Record Now".

2) Start Recording According To Schedule

Test data is recorded according to the time period defined at the "Start Record At" settings.

The "Record Interval" setting changes the time period between recording data points and can be set from a minimum of 1 second to a maximum of 999,999 hours.
When the start date is set for a future time, the "Record" box on the main screen Changes to "Record (Stand by record)" and its color changes to yellow until the recording begins. At that time the box will change to "Recording" and its color will change to red.

Measurements Instructions *continued*

Figure 14 Power meter recording window

Specification Limit Settings

Upper and lower test power results limits may be defined in the "Test Spec Dn" (lower limit) and Test Spec Up (upper limit). Data point deviations from these limits are indicated on the recorded test results report.

Power Measurement Results Format

The results may be displayed in dBm, milliwatts (mW), or microwatts (uW).

Data Output

Upon completion of recording, data results may be displayed by clicking: View Graph, Open Data File, or Create Excel File. See ***Figure 14***.

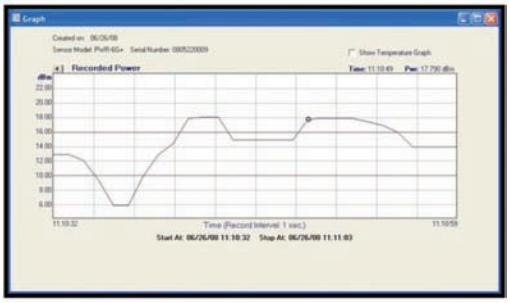

Figure 15 Power meter data group window

Power vs. Time Graph

Upon clicking "View Graph", a graph appears, see ***Figure 15***, that shows power changes vs. time. Since the Power Meter contains a temperature sensor, it is also possible to show the temperature in the Power Sensor body vs time on the graph. This is to allow the user to correlate between Power measurements and temperature. To display the temperature on the graph, check mark "√" the "Show Temperature Graph" box.

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Text Data File

Upon clicking “Open Data File”, a text file window will appear with the recorded data, see ***Figure 16***. The data record options defined by the user will be shown on this text file, for example Date, Time, Frequency, upper and lower Power limits, Temperature. Data results which are outside of the upper and lower Power limits defined will be marked with an asterisk “*”.

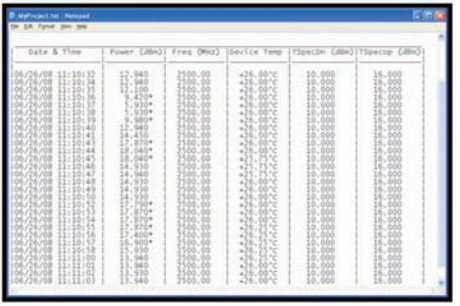

Figure 16 Power meter text data window

Excel Spread Sheet File

Upon clicking the “Create Excel File”, an Excel spread sheet will appear, see ***Figure 17***. The data on the Excel sheet is displayed in a similar format to the Text File (Open Data file). Note that the computer used must have the Excel software installed.

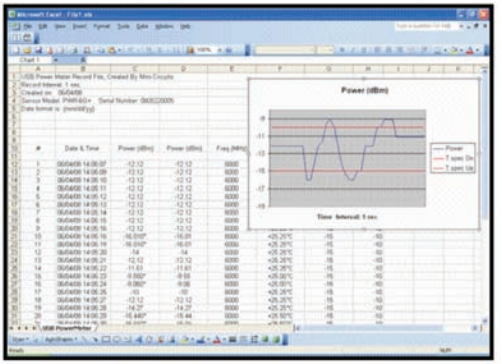

Figure 17 Power meter excel data window

ADDITIONAL SOFTWARE FEATURES

Data Averaging

In cases when the measured signal is not stable, it is possible to display the test result based on the average of a number of measurements. The number of measurements that the averaging is based on is defined by the user. A check mark "√" is put in the "Averaging" box, see ***Figure 18***, and number of readings is typed into the "Avg. Count" window. The result is displayed after the first average is calculated and the following calculated averages are presented as testing progresses.

Figure 18 Data averaging

Relative

This feature allows the user to make a measurement relative to a previous data reading. A check mark "√" is put in the "Relative" box, see ***Figure 19***. This enables saving a reading and then the main screen result of each additional reading will be relative to the saved reading. The result will be presented in dB.

Offset Value

This feature allows the user to compensate for Loss or Gain in the Setup, positive value compensates for a Loss, and negative value, for a Gain. A check mark "√" is put in the "Offset Val." box, see ***Figure 19***, and Attenuation offset value is typed into the "Offset Val." window.

Reset Connection

If the Power Sensor is unplugged from the USB port, to continue taking readings, the Power Sensor should be plugged back into the USB port and click the "Reset Connection" box, see ***Figure 19***.

Figure 19 Relative reading results

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Add Sensor

This feature allows the user to work with more than one Power Sensor using the same computer. While testing with one Power Sensor another Power Sensor may be added by plugging the additional Power Sensor into a USB port and click the "Add Sensor" box. A list of Power Sensors connected to the computer will appear (listed under the Power Sensor serial number), see ***Figure 20***, the user should choose the appropriate Power Sensor.

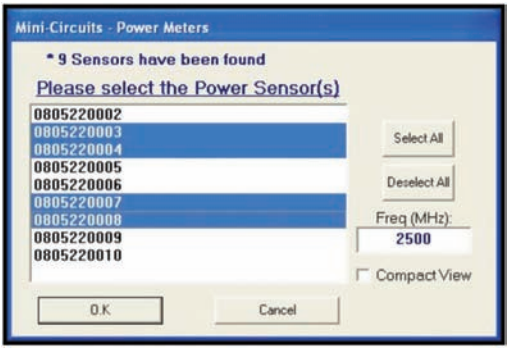

Figure 20 List of multiple power sensors connected to computer

Working With Multiple Power Sensors

In case the user works with more than one Power Sensor, the software identifies all the Power Sensors connected to the computer by the Power Sensor serial number and presents a list of Power Sensor, see ***Figure 20***.

Selecting Power Sensors

The user will select the desired Power Sensors according to the serial number.

To use all Power Sensors connected, click "Select All".

To use each of the Power Sensors at a different test frequency, the ***user must*** input the desired frequency for each Power Sensor on the Main Screen (corresponding to each Power Sensor). For ease of use, place a check mark "√" in the "Compact View" box, see ***Figure 20***.

Software Interfacing

Interfacing with test software for Power Sensor remote control can be done easily through various set application and software tools including C++, Visual Basic, Delphi and LabView. On the software disc supplied open the folder, DLL_ActiveX and locate the file, mcl_pm_dll_ReadMe.txt. This has programming instructions and an example included.
The library file, mcl_pm.dll is located in the same directory.

Additional Power Meter Software Features continued

Compact View

The Compact View allows the user to view the serial number of each Power Sensor, Frequency, and Power reading, see ***Figure 21***.
To change the Frequency of one of the Power Sensors, click on the screen and a full screen view will be shown, where the relevant Frequency may be changed.

Figure 21 Compact view windows

Multiple Power Sensors

Multiple Power Sensors may be connected to a computer by using USB Hub. (Recommend a maximum of a 4-port Hub per computer USB port,) see ***Photo 1***. To use 16 Power Sensors with one computer, four 4-port Hubs should be used, for reference see ***Figure 22***.

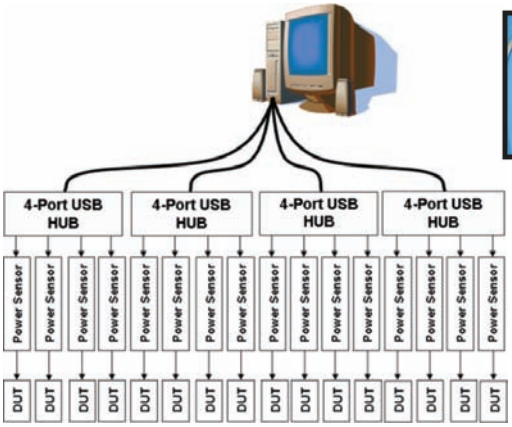

Figure 22 Connection diagram for 16 power sensors

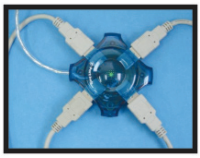

Photo 1 Example of 4-port USB hub

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The arbitration proceedings shall be conducted before a panel of three (3) neutral arbitrators. The place of the arbitration shall be in New York, New York. Any award in an arbitration initiated under this Terms of Use shall be in accordance with New York law, as more particularly specified in subparagraph (a) of this section. The successful party will be entitled to be awarded all costs, including reasonable attorney's fees, paid or incurred by such prevailing party during the course of the arbitration proceedings.

In any arbitration initiated under this Terms of Use, the arbitrators will have no authority to award (i) injunctive or other equitable relief, or (ii) consequential, exemplary, incidental, indirect or special damages, lost profits or punitive or other damages not measured by the prevailing party's actual direct damages, except as may be required by statute and then only to the extent such requirement cannot, as a matter of law, be waived. Any award shall include no injunction or direction to any party other than the direction to pay damages in accordance with the provisions hereof.

(ii) Except as required by law, neither party nor any arbitrator may disclose the existence, content or results of any arbitration hereunder without the prior written consent of Mini-Circuits and Purchaser.
(iii) If either party fails to proceed with arbitration as provided herein or unsuccessfully seeks to stay such arbitration, or fails to comply with any arbitration award, or is unsuccessful in vacating or modifying the award pursuant to a petition or application for judicial review, the other party shall be entitled to be awarded costs, including reasonable attorneys' fees, paid or incurred by such other party in successfully compelling such arbitration or defending against the attempt to stay, vacate or modify such arbitration award and/or successfully defending or enforcing the award.

By installation and use of this Software, Purchaser agrees to be bound by all applicable laws and regulations that may pertain to the Software, and Purchaser agrees that the Software will not be used, removed or exported from the United States or re-exported or released (i) to any of the following countries or a national thereof: Cuba, Iran, North Korea, Sudan, Syria or any country specified in Country Group E (as specified in the then current Supplement No. 1 to Part 740 of the U.S. Export Administration Regulations) or (ii) to any Entity as specified in Entity List Supplement No. 4 to Part 744 of the U.S. Export Administration Regulations or other country except in compliance with, and with all licenses, license exceptions and approvals required under, the U.S. Export Administration Regulations and all other applicable United States and foreign export laws, rules, restrictions and regulations, including those of the U.S. Department of Commerce and other applicable United States agencies and authorities, as amended from time to time. Diversion therefrom contrary to U.S. law is prohibited. If Purchaser chooses to install or use this Software from outside the United States, Purchaser does so on its own initiative and is responsible for compliance with applicable local laws.
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USB POWER SENSOR PWR-6G+

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