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# Remote Control of Anritsu's MA24400A USB Peak Power Sensor Series

## Introduction

Anritsu's MA24400A USB Peak Power Sensor series can easily be configured for remote monitoring within your local network. Remote connections are ideal for various remote monitoring applications such as EMI/EMC testing, particle accelerators, and satellite systems, where sensors need to be placed at different locations within the same facility. Utilizing a standard Ethernet- or Wi-Fi-to-USB sharing device to connect all remote sensors and PCs to the same local subnet, the remote sensor can be controlled and monitored from a central location using the Peak Power Analyzer software provided by Anritsu.



*Figure 1. MA24441A Peak Power Sensor*

Although we examine remote control operation here specifically for the MA24400A USB Peak Power Sensor, the techniques for remote control are applicable for all Anritsu USB-based power sensors.

## Remote Monitoring via LAN

By using a standard USB sharing device, it is possible to connect remotely and monitor multiple MA24400A USB Peak Power Sensors connected to the same local subnet. There are many USB sharing devices available in the market from different manufacturers. Each device may be configured differently but should have similar capabilities.

For purposes of this application note, we will be using an SEH Technology myUTN-2500 USB device server as our Ethernet-to-USB sharing device (Figure 2).
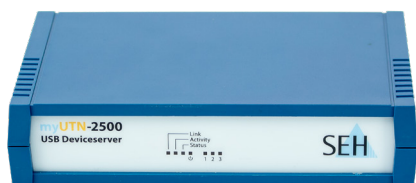


*Figure 2. Front and rear view of the SEH myUTN-2500 device server*

Before setting up your system, download all required software needed to configure the USB sharing device. In this example, use the Administration SEH UTN Manager available from the SEH website.

To begin the configuration process, perform the following actions:

- Connect an Ethernet cable from the device server hardware to the network.

- Apply power to the device server.

- Connect the MA24400A USB Peak Power Sensor to the USB port of the myUTN-2500 device server.

- On your PC is connected to the network, launch the SEH UTN Manager software and click on the scan button. The network automatically assigns an IP address for the sensor and DHCP protocol is assumed. Add the sensor to the listing so that it appears in the second column "Properties" (Figure 3).
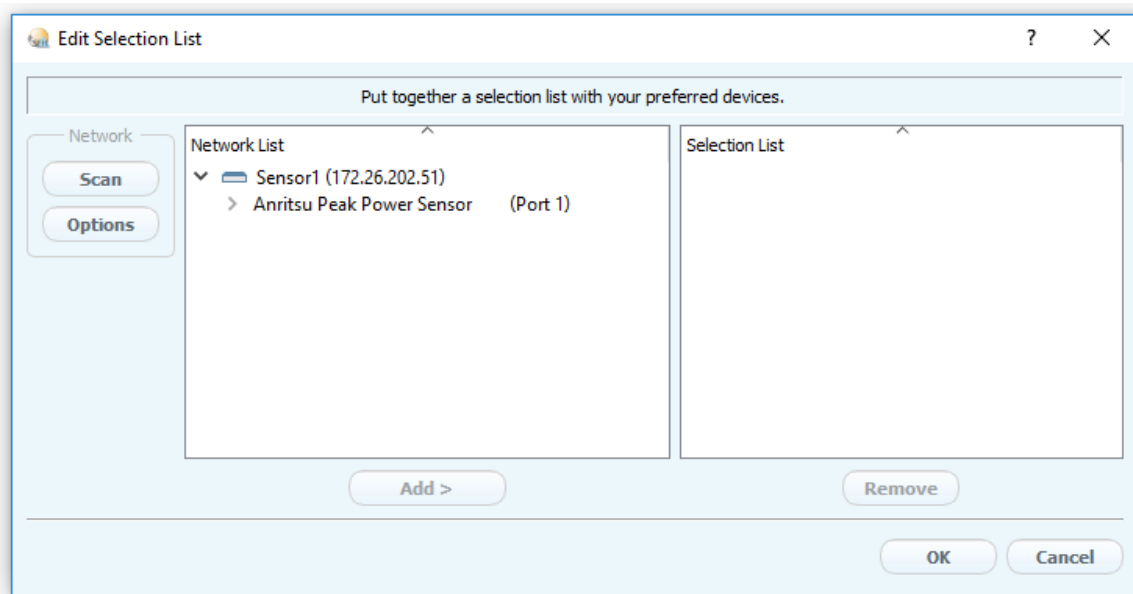


*Figure 3. Selection List for Peak Power Sensors*

- Highlight the "Anritsu Peak Power Sensor" in the UTN Manager, then click on the Activate button. A successful activation is shown in Figure 4, with the status in green typeface and the activation button greyed out.
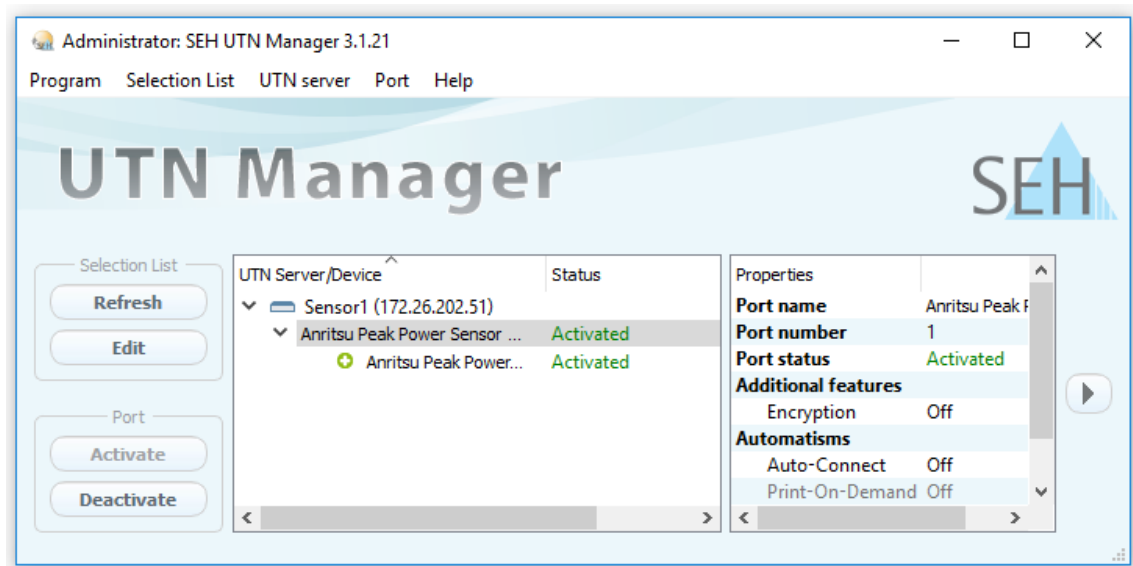


*Figure 4. Peak Power Sensor Activated*

- Once the sensor is activated, use the SEH myUTN Control Center software to choose a host name for the device (called Sensor1 in this instance), as well as make other changes for security and maintenance (Figure 5). Note: Use of this software is only used to configure the shared device and not necessary for any remote control functionality of the power sensor.
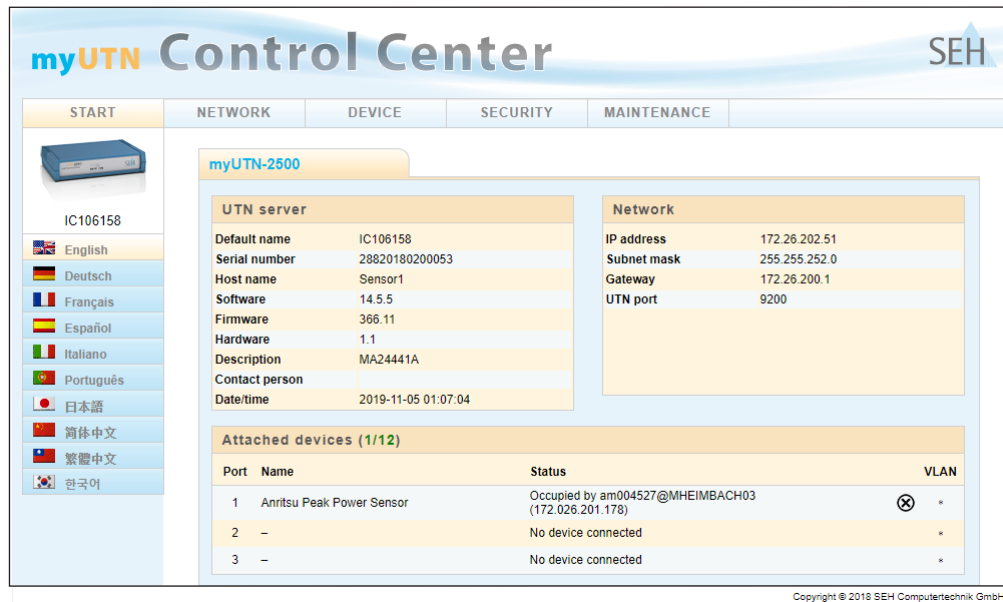


*Figure 5. Control Center Interface*

Note: Additional firewall configurations and network protocol settings might be required if trying to connect from outside the local subnet. Some corporate IT firewall policies may not allow operators to change network settings.

You are now ready for view/control the MA24400A USB Peak Power Sensor using the Anritsu Peak Power Analyzer (PPA) software (Figure 6).
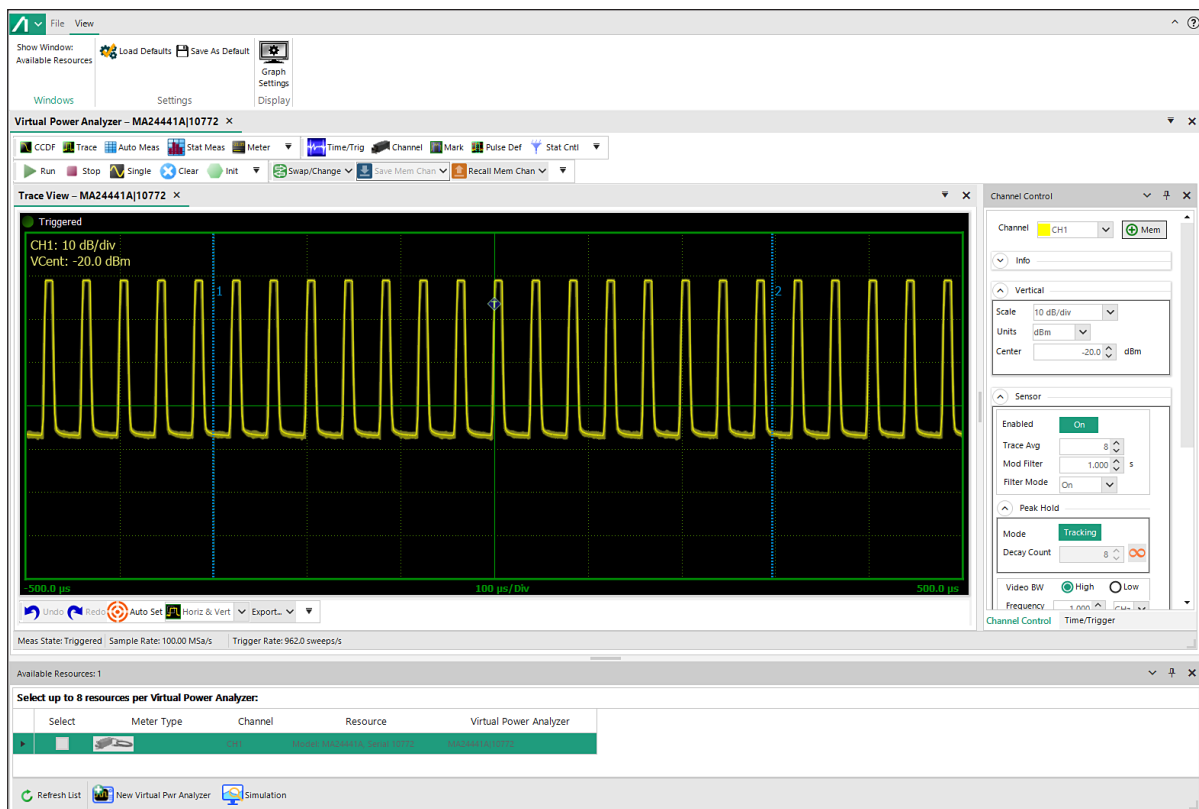


*Figure 6. Anritsu MA24400A Peak Power Analyzer Display*

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Figure 7 shows a network environment for remote control of the MA24400A USB Peak Power Sensor.
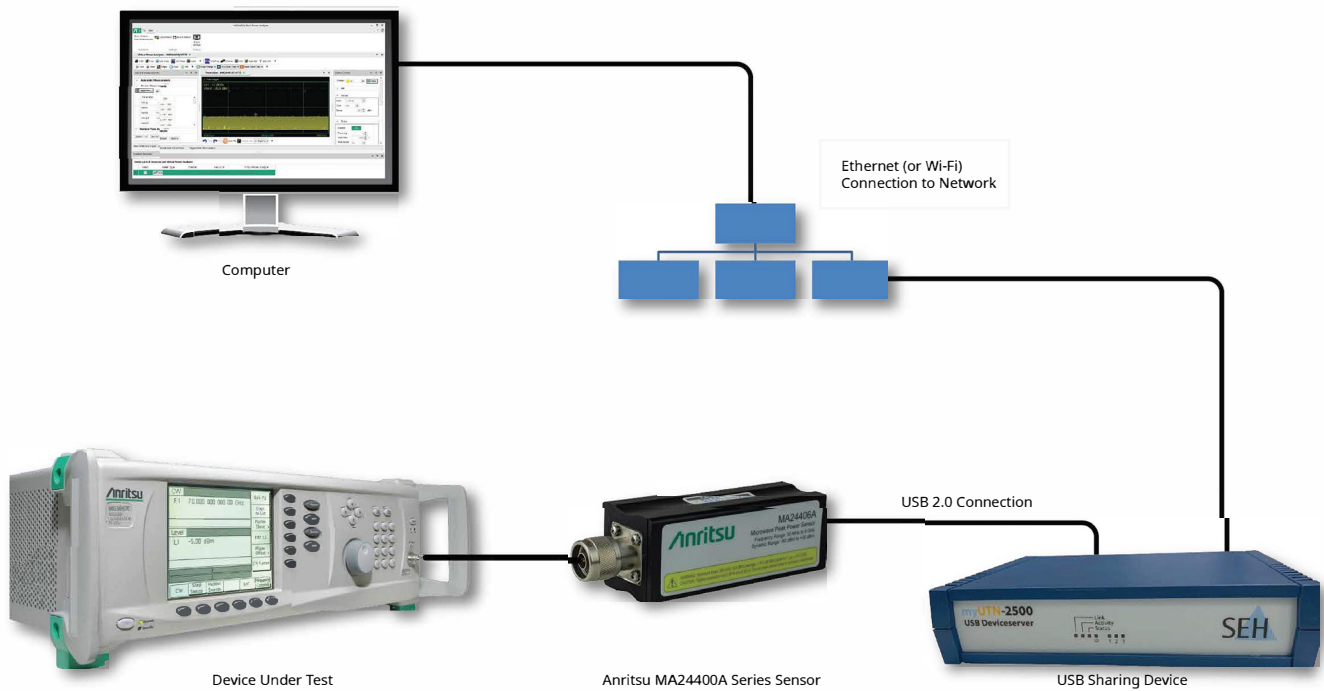


*Figure 7. Typical scenario for remote monitoring of MS24400A USB peak power sensors.*

## Conclusion

By utilizing a standard Ethernet- or Wi-Fi-to-USB sharing device, the Anritsu MA24400A USB Peak Power Sensor series offers the flexibility for remote connectivity over a corporate network. The USB power sensor can be conveniently controlled and monitored from a host PC running the Anritsu PPA software within the same network environment. The use of a standard off-the-shelf USB sharing hub is the ideal approach for remote control over a local Ethernet connection (a WLAN network may also be used).

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