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# Maretron®

## Maretron WSV100 MConnect Web Server



## **Product Specifications**

- **Power Requirement:** 9-30 V DC at 1.5 A
- **Network Compatibility:** NMEA 2000
- **Ethernet Connection:** LAN
- **Software Compatibility:** Windows, PC, Mac, Tablet

## **Product Usage Instructions**

### **Connect Power**

Plug in the Power Cord with the correct wire colors based on the version. The red LED will indicate power connection and change to green/yellow when the program starts.

### **Connect to NMEA 2000 Network**

Connect to the NMEA 2000 network, ensuring unique instance numbers across connected networks. Green LEDs will flash when data is received.

### **Connect Ethernet Cable**

Connect MConnect directly to a Router or MFD with a DHCP Server using an Ethernet cable. The LAN LED will indicate a successful connection.

### **Access the MConnect URL**

Type the provided URL or IP address into a web browser on a PC, Mac, or tablet to access MConnect interface.

### **Commands and Settings**

Access settings and commands by pressing the Settings Menu button or the cog symbol on the screen.

### **Copying the Default Configuration**

Create a backup of the default configuration by exporting it to your computer. Edit the copy as needed and import it back into MConnect.

### **Editing the Configuration**

Edit configurations using the MConnect editor accessible from the configuration dialog.

## Upgrading the Software

Upgrade the software on Windows by following the provided instructions.

## Connect Power

- The Power Cord is included in the box. MConnect requires 9-30 V DC at 1.5 A.

There are two versions of the Power Cord with the following wire colors:

	Old	New
Pin 4: +ve	Black	Red
Pin 1: -ve	Brown	Black
Pin 3: Not used	Blue	White

- A red LED on the top of the box will show when power is connected and will change to green/yellow when the program starts (this may take up to 2 minutes).

## Connect to the NMEA 2000 network.

Two networks may be connected. They will not be bridged by MConnect, but will be treated as a single logical network, i. e. Instance numbers must be unique across both networks. The unit will work using demo data without an NMEA 2000 connection; all the demo data uses instances 100 through 104. Green LEDs on the top of the box will flash when NMEA 2000 data is being received.

## Connect Ethernet Cable

MConnect does not have a DHCP server, so it should be connected directly to a Router or MFD with a DHCP Server. The “LAN” LED will flash when the Ethernet is connected.

## The MConnect URL

- MConnect supports mDNS. Typing the URL to connect. Local in a web browser on a PC / Mac/tablet should resolve to the IP Address of the box.
- If this does not work, insert a USB Drive into the port on the side of the box for 30 seconds. The “USB” LED on the top of the box should flash while the USB drive is inserted.

**Note:** If the “USB” LED does not flash, there is a chance that the USB is drawing

more current than the USB chipset can handle. If this happens, the USB chipset will shut down, and the box will need to be re-powered to start it up again. If this happens, try a different USB Drive or use a powered USB hub.

- This will create a file mconnect-data.json on the root of the drive with the following contents:

```
mconnect-data.json
1 {
2   "versionNo": "0.3.0.20230824",
3   "serialNo": "00000002\n",
4   "ipAddress": "eth0: address = 10.71.1.160, mac = dc:a6:32:f5:e1:94"
5 }
```

- Using a web browser on a PC / Mac/tablet, type the URL (or the IP Address), and you should see the following screen:



## Commands and Settings

- Pressing the Settings Menu button will show the following options for dialogs. On screens that don't have a Settings Menu button, a cog symbol will be displayed (normally at the top right of the screen). Pressing the button will show the Dialog Menu:



- Press the Export Button, select the default configuration, press Create Export File, and the Download button to export a backup copy to your computer. Close the Export Dialog, and then press Import, and upload the backup copy to the user area of MConnect.

## Editing the Configuration

- From the configuration dialog, pressing the Edit Configurations button will bring up the MConnect editor.
- To see the list of Parameters that can be monitored and components displayed on the screen, press the Documentation button at the top of the screen, and then the Create MConnect Parameter File button. This will create an HTML file and place it in your Downloads directory, where you can open it using a browser.
- All user images that you need as backgrounds, or within gauges and buttons, need to be uploaded from your PC to MConnect using the Image Manager before they can be selected in the Screens editor.
- To create a new configuration, open the configuration panel at the top left and press the New button.
- For more details, see the full MConnect Manual, which can be downloaded from the Maretron Website <https://www.maretron.com/products/mconnect/>

## Upgrading the Software

### Windows

The new version of the software will be provided as a .exe file. Plug a USB Drive into a Windows PC or laptop and execute the .exe file. This will populate the USB drive with the files needed to install the update.

## Mac / Linux

The new version of the software will be provided as a .zip file. Unzip the contents of the file to the root of a USB Drive. This will populate the USB drive with the files needed to install the update. Eject the USB Drive.

## Installation

- Display the MConnect web page on any device.
- Insert the USB Drive into the USB port on the side of the MConnect box. The “USB” LED on the top of the box should flash while the USB drive is inserted. Follow the instructions on the MConnect web page.

**Note:** If the “USB” LED does not flash, there is a chance that the USB is drawing more current than the USB chipset can handle. If this happens, the USB chipset will shut down, and the box will need to be re-powered to start it up again. If this happens, try a different USB Drive or use a powered USB hub.

- All the files are digitally signed; if any file has been changed, the update process will be aborted.
- If the upgrade is configured to install automatically, the LEDs on the top of the box will flash one at a time in an oscillating up and down pattern, otherwise the user will be prompted to start the upgrade from a screen.

## Frequently Asked Questions (FAQ)

- **Can I use MConnect without connecting to an NMEA 2000 network?**

Yes, MConnect can be used with demo data without an NMEA 2000 connection.

- **How do I know if power is connected to MConnect?**

The red LED on top of the box indicates power connection and changes to green/yellow when the program starts.

- **What should I do if I encounter issues with the Ethernet connection?**

Ensure that MConnect is connected directly to a Router or MFD with a DHCP Server using an Ethernet cable and check for a flashing LAN LED to confirm the connection.

## Documents / Resources



# Maretron WSV100 MConnect Web Server [pdf] Installation Guide

WSV100, WSV100 MConnect Web Server, MConnect Web Server, Web Server, Server

## References

- [User Manual](#)

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