



EVOM™ Manual

Upgrading EVM-MT-03-01 or EVOM3 to EVM-MT-03-02 for Secure Data Transfer to PC

Use these instructions to upgrade your EVOM™ Manual or EVOM3 and add PC file download capabilities. This document is stored in the root directory of the upgrade package which may be downloaded from the WPI website (<https://www.wpiinc.com/support/software-download>).

The folder is configured with three subdirectories containing the following components:

- **CDM v2.12.28 WHQL Certified** – USB drivers for serial port communications (if needed)
- **EVOM MANUAL Companion APP**– Installer files for the EVOM™ Companion Application
- **EVOM Programming Instructions** – This technical bulletin is provided with instructions on updating the EVOM™ Manual firmware, as well as the installing files required to use the secure data transfer to a PC via the EVOM™ Companion Application.

UPDATE THE FIRMWARE ON THE EVOM™ MANUAL OR EVOM3 METER

1. Connect Mini-B USB cable (WPI #803026) to computer and to the **Power Connection Port** on the back of the EVOM™ Manual.

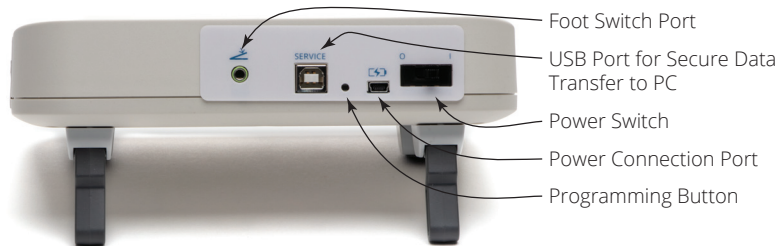


Fig. 1—The ports and controls on the back of the unit let you connect a foot switch, connect a USB cable to a PC for secure data transfer or firmware upgrade, program new firmware, connect the power adapter, and power on the system.

NOTE: If necessary, you may install the USB driver on your PC. The USB drivers for serial port communications are located in the **CDM v2.12.28 WHQL Certified** directory.

2. On the computer run the **MikroBootloader** application by following these instructions:
 - a. Using Windows® Explorer, navigate to folder named **/Standalone Windows Bootloader**.
 - b. Double click on **mikrobootloader USB HID v2.10.exe** file.
 - c. Once it is installed, start the **mikroBootloader** program on the computer.
3. On the EVOM™ Manual, make sure the Power Switch is in the Off position (O).
4. Use a paper clip to press the **Programming** button on the back of the EVOM™ Manual meter. While pressing the button, slide the power switch to the On (I) position and wait for the USB icon to turn red on the **mikroBootloader** screen.



Fig. 2—The USB icon on 1 turns red when a connection is detected. Then a message displays in the History Window when it is connected. The progress bar at the bottom indicates the progress of the file upload.

5. As soon as the USB icon turns red, press the **Connect** button on the microBootloader application. A message displays in the window when the EVOM™ Manual connects. You have 5 seconds after detection to press the **Connect** button before the system boots normally. Once the EVOM™ Manual is detected, you may release the **Programming** button that you were pressing with a paper clip.
6. Press the **Browse for Hex** button and navigate to the hex file located in the **/Firmware** directory.
7. Press the **Begin Uploading** button and wait for the program to load. After loading, the application will automatically restart.
8. Cycle power on the EVOM™ Manual to load the new firmware.

INSTALL THE EVOM™ COMPANION APPLICATION

1. Once the upgrade is installed, use Windows® Explorer to navigate to the **EVOM MANUAL Companion APP** directory in the downloaded file. The files are also available on the EVOM™ USB flash drive (WPI #97893) in the **[DRIVE]:\EVOM_APP_INSTALLER** directory.
2. Double click on the **setup.exe** file to install the EVOM™ Companion Application on your PC. Follow the on screen installation prompts.
3. Launch the EVOM™ Companion Application by typing “EVOMDataTransfer” into the Windows start bar search field (Fig. 3). Select the WPI Application (Fig. 4) from the list that appears.

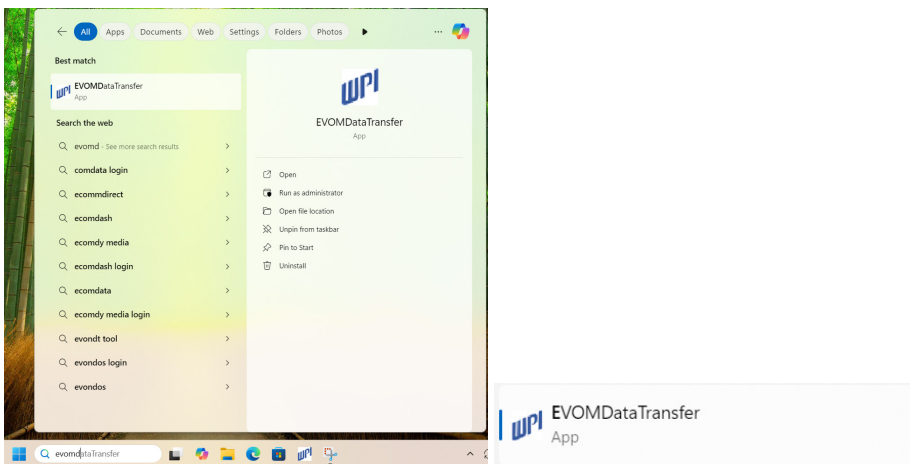


Fig. 3—(Left) Enter EVOMDataTransfer into the Windows search field.

Fig. 4—(Right) Select the WPI application from the list that display.

TIP: After the program has launched, right click on the WPI icon (Fig. 5) in the taskbar and select **Pin to taskbar**. Then, you can double click the taskbar icon to load the program in the future.



Fig. 5— The WPI icon appears in the taskbar when the program is running. Right click to pin it to the taskbar for future use.

4. Refer to the latest EVOM™ Manual Instruction Guide for details on how to use the Companion Application with the EVOM™ Manual. You can download it at <https://www.wpiinc.com/manuals>.