Firmware Update iMETOS 3.3 & ECO

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To update the Firmware of a station you need:

1. Pessl Instr. Firmware Uploader (FW Uploader)
2. mini USB cable to connect the main boards to the PC or Notebook
3. jumper (jumper RM2,54)
4. latest version of the Firmware (FW) for the main board

You can download the FW here:

(https://support.metos.at/a/solutions/articles/15000049569?lang=en&portalId=15000000447)

(https://cloud.metos.at/index.php/s/jw5Q46NGDHRRoBc) (https://cloud.metos.at/index.php/s/jw5Q46NGDHRRoBc)

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Click HERE to download the Firmware (https://support.metos.at/en/support/solutions/articles/15000018473)

You can download the FW Uploader here:

(http://metos.at/de/manuals/) (https://cloud.metos.at/index.php/s/4RSjxAYa3WXgakB)**PI FW Uploader**

(https://cloud.metos.at/index.php/s/kYHo3MnkopfBfWZ)

For more information or help please read

Download PI FW Uploade (https://support.metos.at/en/support/solutions/articles/15000049760)r
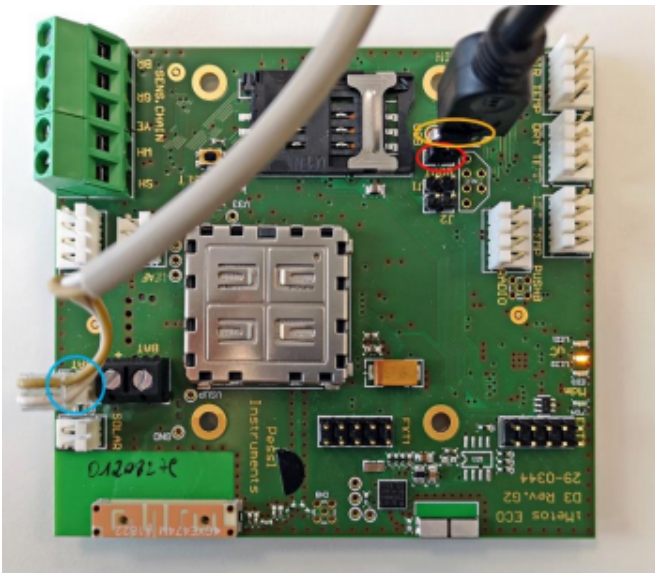
in our solutions.

To manually upload the firmware on the station, please follow the given next steps:

1. Unplug the battery and solar panel.

2. C**onnect** the **PC** to the **station** (USB Cable yellow circle) and put the **jumper** on the **boot pins** (red circle)
   Make sure that there are not other USB cables connected to your PC.

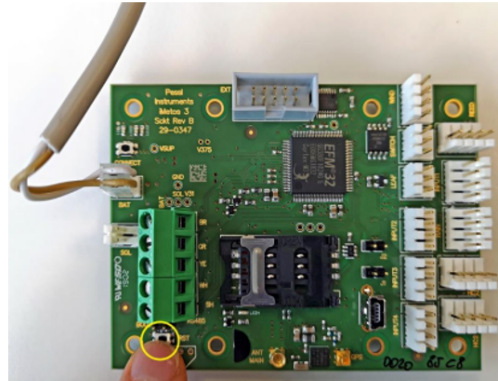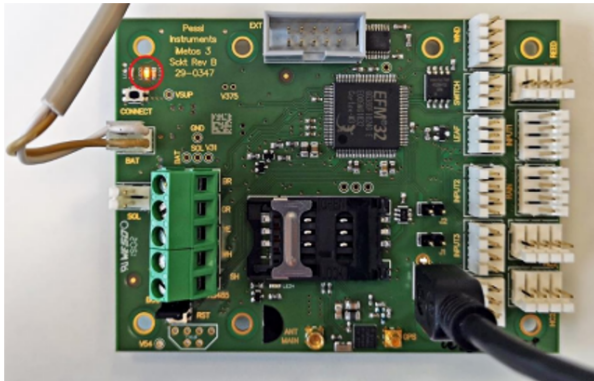3. Plug in the battery (blue circle).
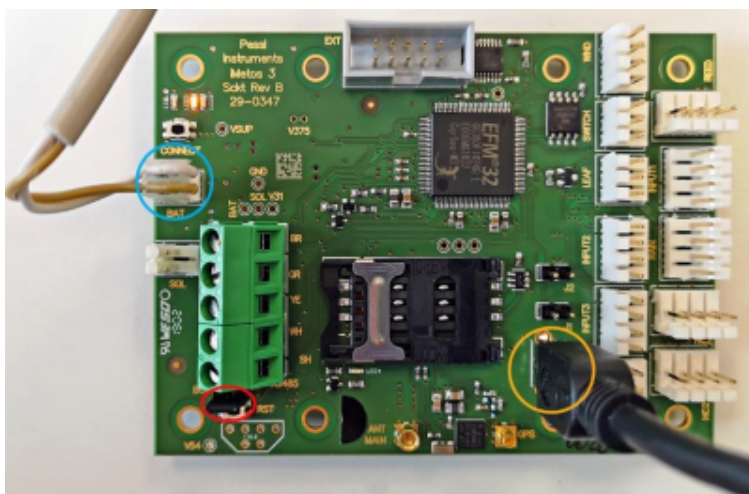

iMETOS 3.3 motherboard

iMETOS ECO D3 motherboard

4. The motherboard now **starts** in **boot mode, Yellow LED** in the middle is on (see red circle below). If the station is not in boot mode, press **Reset** button on the board (see yellow circle below).
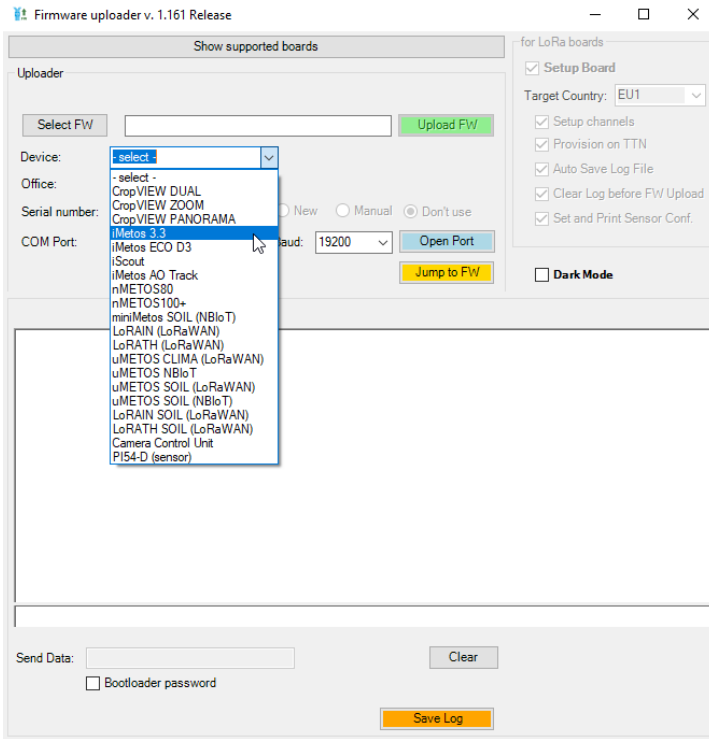

5. Open the program **Firmware uploader**

6. On **"Select FW"** sellect the **correct FW** for the station e.g:
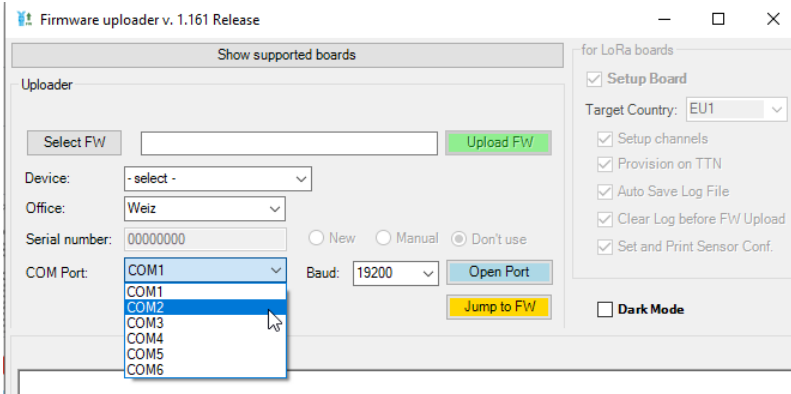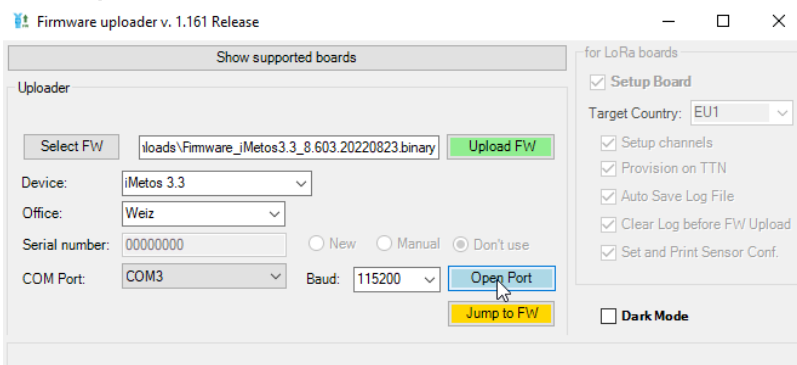   Firmware_iMetosEcoD3_1.603.20220823.binary
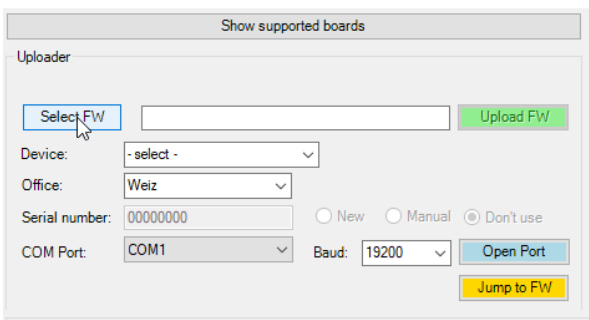
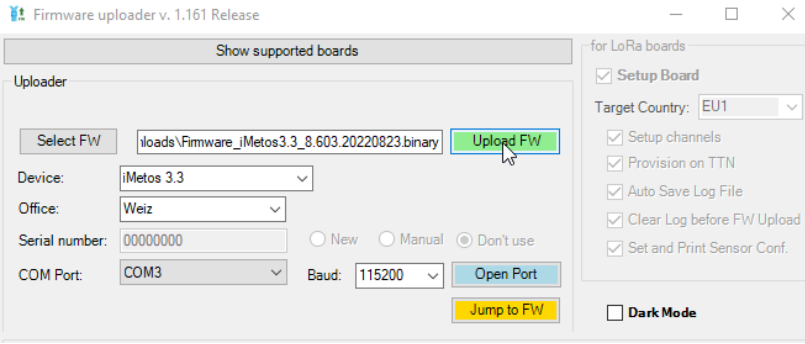7. On **"Device"** select the **correct device**

8. On **"COM Port"** Select the **correct COM Port**. If it is the only one device connected to your PC, COM port is detected automatically.


9. Click **"Open Port"**

10. Click **"Upload FW"**

11. After "Firmware successfully uploaded", the board **automatically restarts** and starts communication with the server. Wait until the first communication ends.

12. As soon as you see the message **"Firmware successfully uploaded", you're done**. Please leave the **battery connected for 24 hours.** Connection with the server will be established after a while.
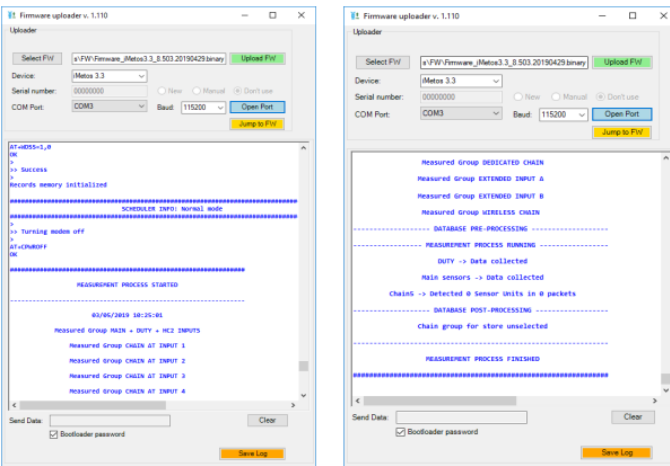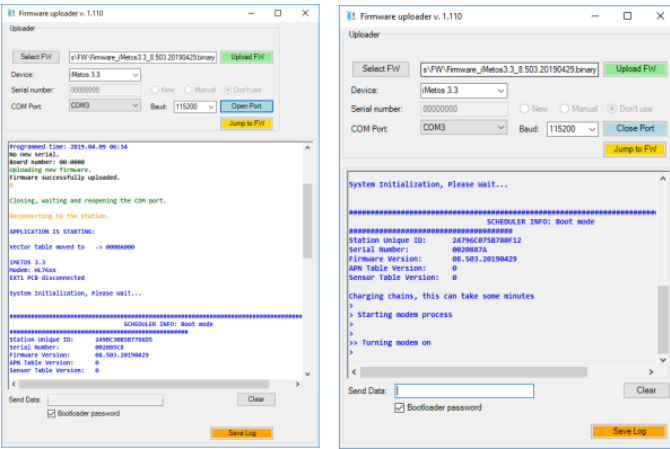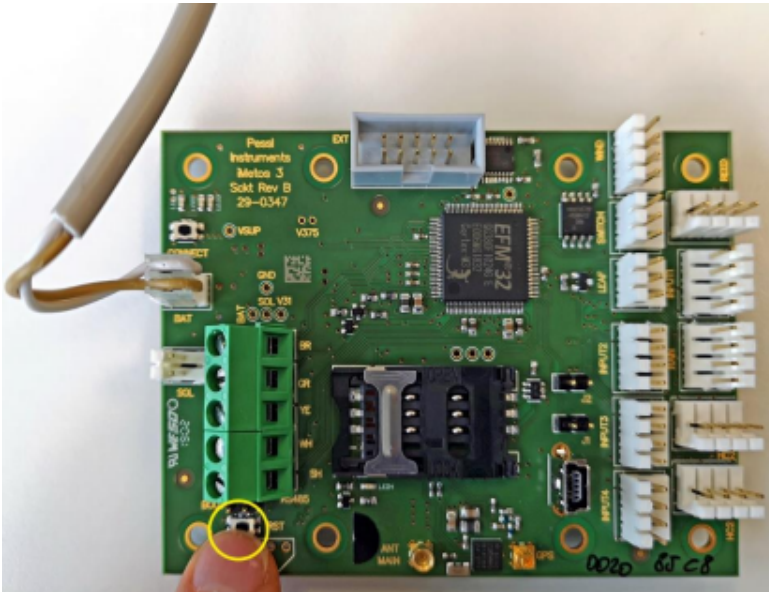

Example for communication with the Server

13. To leave the boot menu/boot mode click **"Close Port"** and remove the **Boot jumper** from the board.
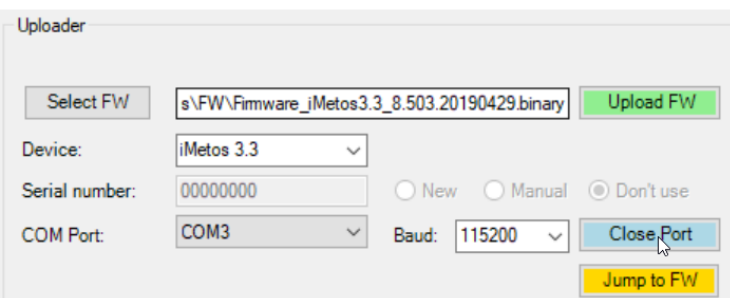
14. **Remove** the **USB cable** and press **reset** (RST yellow circle) on the

board.

Important note:
The **complete monitoring** of the communication process should take place **after each installation** by connecting the PC to the iMetos. The installer should **never leave the site without performing a sensor test and communication process log**

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- To double check if the update of the serial number was successful follow the next given steps:
- Open the PI Service Terminal
- Connect the PC to the board via USB cable and connect the battery.
- Then click "Connect".
- Wait until the Main Menu appears or press "H"
- Press "1 SYSTEM" and then "1 QUICK VIEW"
- Now you see at "FW Version:" the actual version of your firmware
- At "Serial number" you see your actual serial number.
- Press now on "Disconnect" and unplug the USB cable and the battery
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D   Davide is the author of this solution article.