



## HYDRONIC Update Procedure Web



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## 1 Terms and Definitions

Master	A CON64A HYDRONIC device.
UI	User Interface

## 2 Purpose of this document

This document describes the procedure to be followed in order to apply uC Firmware and Web Interface updates to a Master device. It is meant to be read from people that are aware of the project functionality and the project's requirements.

The document is divided into three sections:

- Folder Description
- uC Firmware Update
- Web Interface Update

*Warning:* This document is not intended for the final customer.

### 3 Folder Description

The files that shall be used to update the uC Firmware and Web Interface through the Web environment can be found in the *Update\_Files\_via\_Web* folder. They are specifically created ONLY for Web updates and are encrypted and password protected so that they can be safely distributed to end customers.

The uC Firmware Update binary filename is in the form **HYDRONIC\_FW\_Beta\_v\_x\_y.bin**, where x and y are major and minor firmware version numbers.

The Web Interface Update package name is in the form **HYDRONIC\_UI\_Beta\_v\_x\_y.zip** where x and y are major and minor UI version numbers.

### 4 uC Firmware Update

To apply the uC Firmware Update, follow the steps below:

1. Access the UI of a Master through a browser environment.
2. Log in the Programming page.
3. Click the HYDRONIC uController Configuration button on the top right corner.
4. Click the Choose File button as shown in figure 5.1.
5. Navigate to the *Update\_Files\_via\_Web* folder in the release package, select the .bin file as shown in figure 5.2 and click Open.
6. Click the Flash button in the HYDRONIC uController Configuration window.
7. A message will appear, informing you that you are about to update the Firmware. Click OK.
8. Wait for the upload to finish. It should not take more than a minute.
9. A message will appear, informing you that the board will reboot. Click OK.
10. All of the LEDs will remain on until the Bootloader is finished installing the firmware.
11. When the installation is finished, the UI page will refresh and the uC Firmware field of the HYDRONIC uController Configuration window will be updated to reflect the newer firmware version.

The uC Firmware Update procedure can handle the following error situations:

- If an unsigned firmware binary file is selected to be uploaded, the UI will inform the user with a message and the file will not be uploaded to the Master.
- If the firmware upload (step 8) is interrupted, the Master will not proceed to installation, the corrupted firmware will be discarded and system operation will continue with the existing firmware.
- In case of a transmission error, the Master will detect the corrupted firmware and will not install it. A notification will appear in the HYDRONIC uController Configuration window.
- In case of power loss during firmware installation (step 10), the Master will restart installing the new firmware until it is successfully completed.

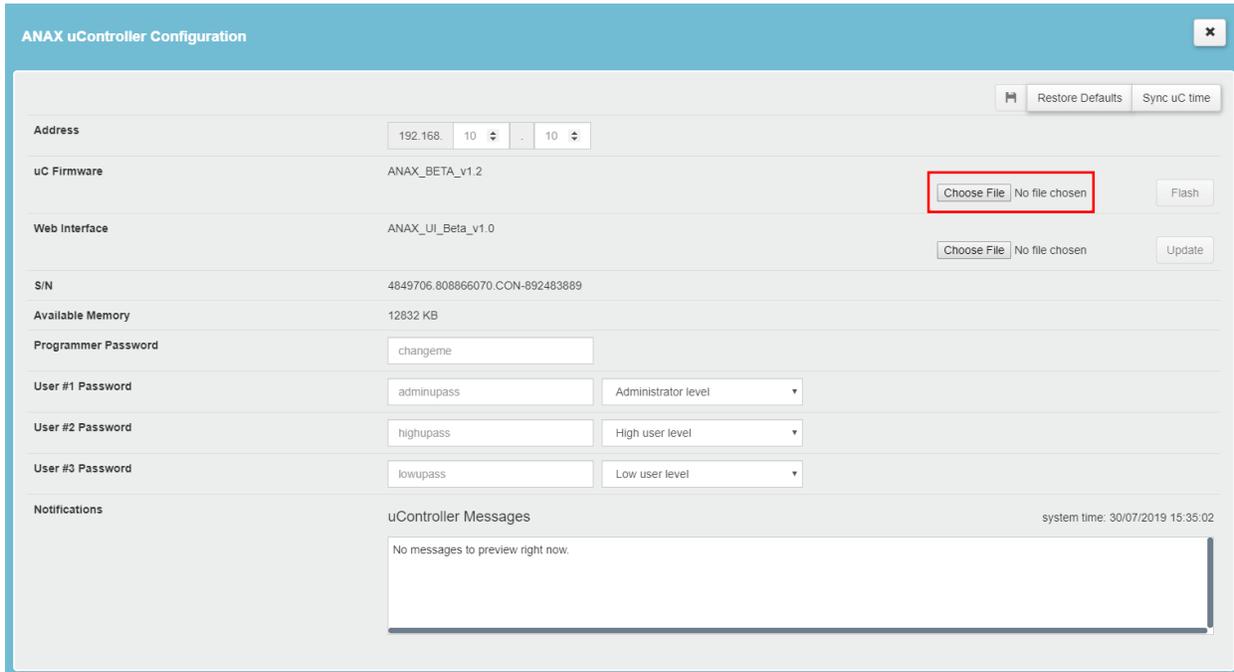


Figure 4.1 Choose File button for Firmware Update

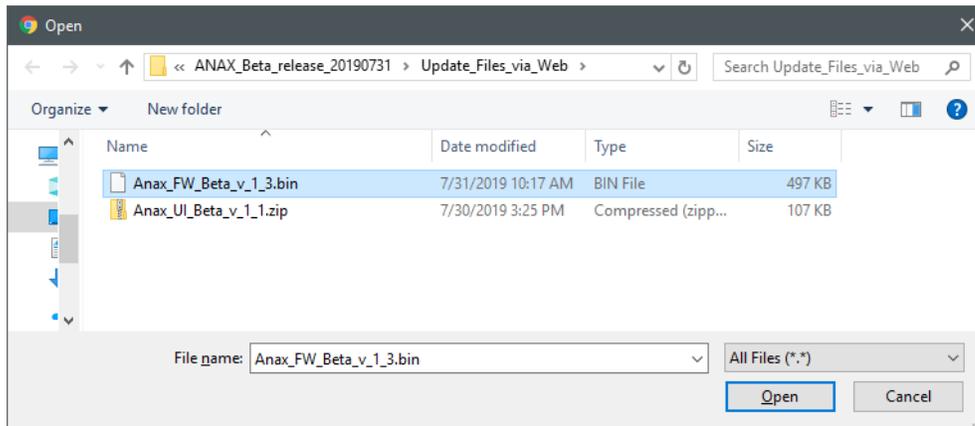
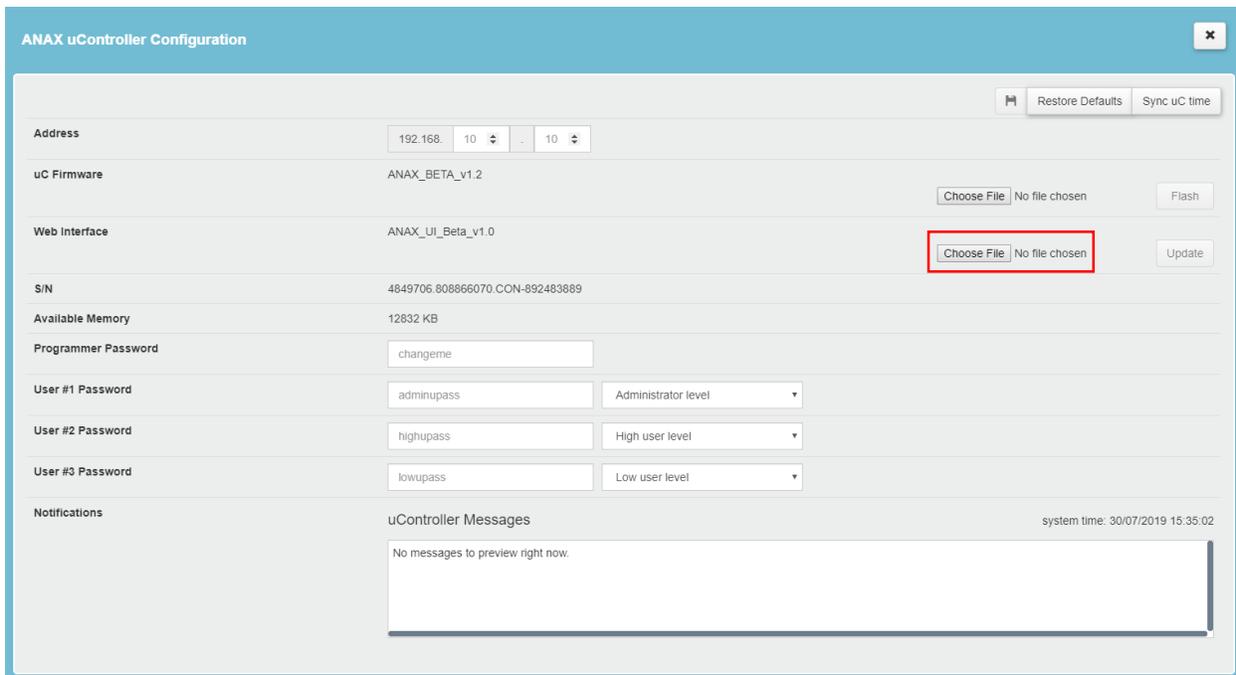


Figure 4.2 Selecting the Firmware Update file

## 5 Web Interface Update

To apply the Web Interface Update, follow the steps below:

1. Access the UI of a Master through a browser environment.
2. Log in the Programming Page.
3. Click the HYDRONIC uController Configuration button on the top right corner.
4. Click the Choose File button as shown in figure 6.1.
5. Navigate to the Update\_Files folder in the release package, select the .zip file as shown in figure 6.2 and click Open.
6. Press the Update button in the HYDRONIC uController Configuration window.
7. A message will appear, informing you that you are about to update the UI. Click OK
8. Wait for the upload to finish.
9. A message will appear, informing you that the update was successful. Click OK.
10. The UI page will refresh. Please wait until it reloads completely before performing any actions.



ANAX uController Configuration	
Address	192.168.10.10
uC Firmware	ANAX_BETA_v1.2
Web Interface	ANAX_UI_Beta_v1.0
S/N	4849706.808866070.CON-892483889
Available Memory	12832 KB
Programmer Password	changeme
User #1 Password	adminupass Administrator level
User #2 Password	highupass High user level
User #3 Password	lowupass Low user level
Notifications	uController Messages No messages to preview right now. system time: 30/07/2019 15:35:02

Figure 5.1 Choose File button for UI Update

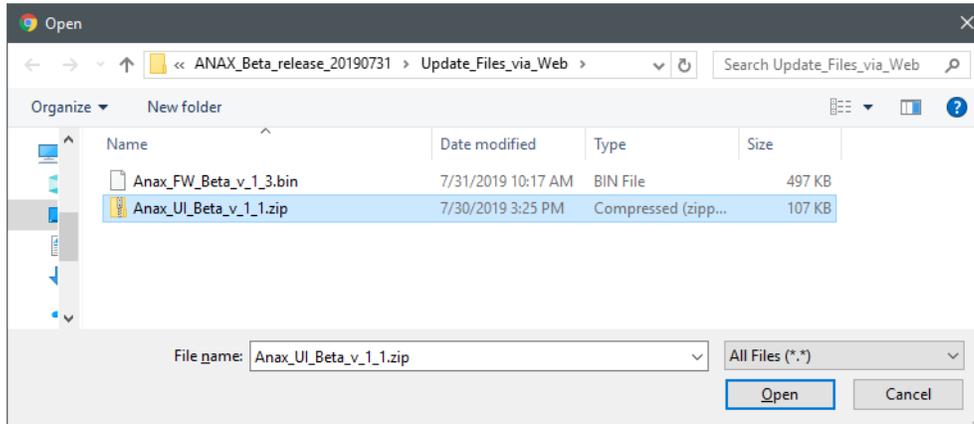


Figure 5.2 Selecting the UI Update file