



Manual HIU Firmware Update

Revision: A

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1 Description of the firmware

Firmware is essentially the operating system of the HIU controller and it contains parameters which enable the HIU to understand which model it is and what features it has. Updates may be released by Heatweb from time to time to modify or improve the features of the HIU. Any software updates must be carried out by an approved engineer, with the full written consent of Heatweb. Failure to obtain training and permission to modify the software will immediately invalidate the HIU warranty.

In order to update the firmware you will require a PC that runs on Windows 7 or higher and a USB 2.0 A-Male to Mini-B Cable.

The following abbreviations are used in this document:

HIU : Heat interface unit
DHW : Domestic hot water
DH : District heating
CH : Central heating

2 Requirements

2.1 Requirements for the PC

- Windows 7.x or higher
- .Net Framework 4
- USB 2.0 ports (Type A)

2.2 Service cable

For the communication between the PC and the HIU, a service cable is needed. The cable is a USB 2.0 A-Male to Mini-B, and can be ordered separately.



Figure 1: Service Cable

3 Installation

3.1 Connecting the service cable

Ensure power to the HIU is OFF.

Connect the service cable to the HIU controller. The service cable will only connect into the USB Mini-B Port on the front of the HIU controller.

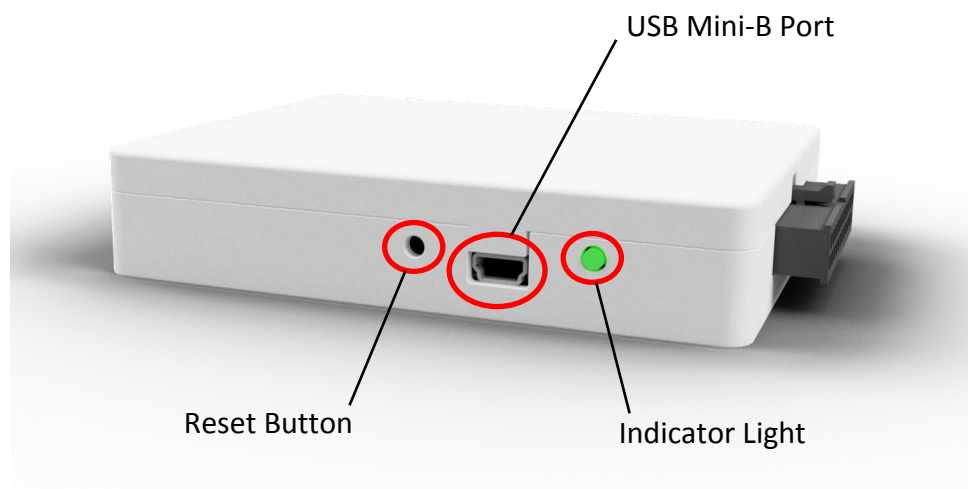


Figure 2: Service cable port, Reset Button and Indicator Light

Now connect the service cable to any USB port of the computer.

4 Connection

4.1 Opening the HIU Controller on the PC

Using a small blunt paperclip or screw driver gently depress the Reset button until you feel a slight click, then with the button still depressed, turn power to the HIU ON.

The Indicator light will immediately light up white and the HIU Controller will begin to connect to the PC. The Reset button can now be released.

After a short while an 'Auto Play' window appears on the PC for the drive 'CRP DISABLD' which is the HIU Controller drive.

See Figure 3: Auto Play Window.

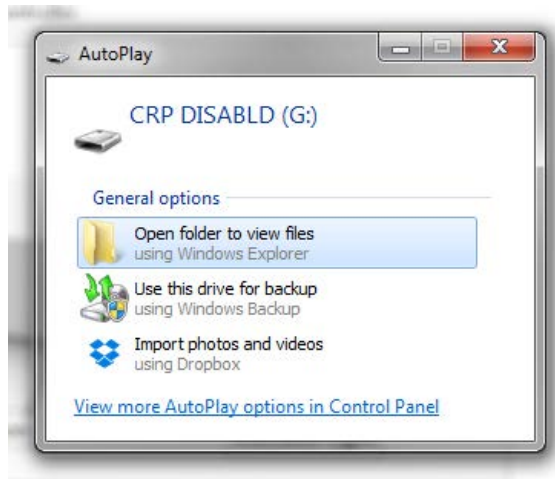


Figure 3: Auto Play Window

Click on 'Open folder to view files' and the following window will open, showing the firmware.bin file currently in the memory of the HIU Controller.

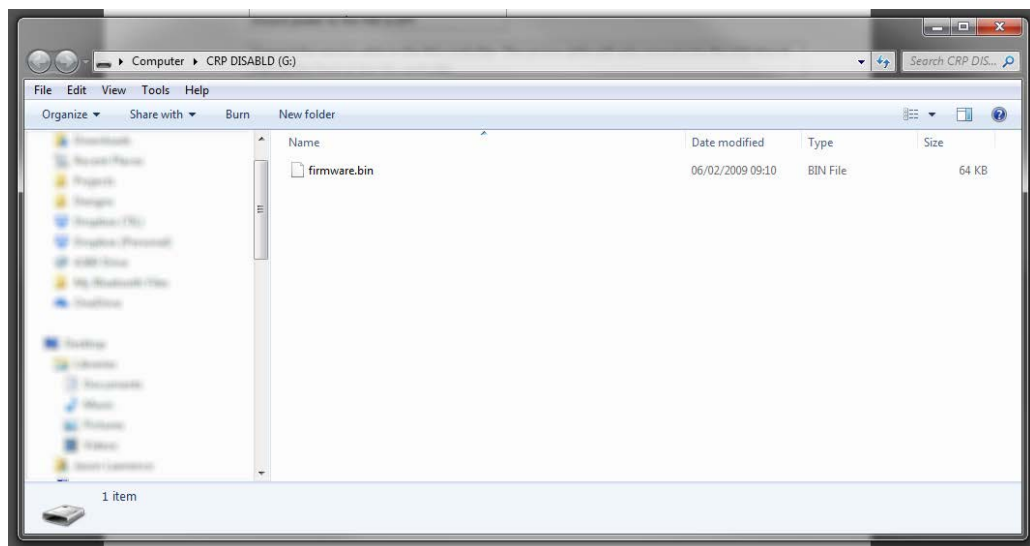


Figure 4: CRP DISABLD Folder

4.2 Installation of the Firmware

IMPORTANT:- Only approved and released firmware files should be installed on the HIU Controller. Each HIU model has a different firmware file, therefore it is important to store them in a folder system which enables them to be kept separate with revision control.

Remove the existing firmware file from this folder and replace with a new firmware file, which will automatically upload on to the HIU Controller as it is pasted into the folder.

The folder can then be closed and power to the HIU turned OFF.

Note: It is often useful to keep the original firmware file in a folder on your computer desktop so that the operation of the new file can be varified, before deleting it.