How to update the firmware of the control board for the pellet stoves

Difficulty level: Intermediate

Time consumption: 15 minutes

Tools: Computer with Gestione Bootloader HID installed, BootLoader,

Aduro pellet stoves use control boards from MicroNova. Firmware updates for these boards are performed by using a MicroNova BootLoader:

Find the manual for the bootloader here: MAN_BootLoader_11_ITA-ENG.pdf (micronovasrl.com)

Firmware for Aduro stoves must be acquired through costumer service, please write to: service@aduro.dk.

Uploading firmware to the bootloader

1. Connect the bootloader to the computer using a USB A to USB B cable, then open the *Gestione Bootloader* program:

There are 8 slots available, corresponding to the 8 switches on the bootloader.

In general, the two buttons used in the *Gestione Bootloader* program are:
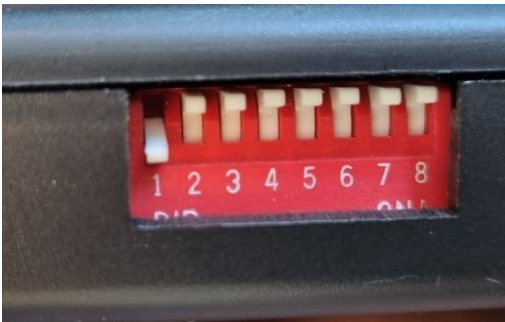
Upload firmware to bootloader:

Delete firmware from bootloader:

Firmware files have the extension. enc: AP1_09.02.23.enc

2. Click the upload button (Carica Firmware) and select the firmware. The firmware will begin uploading to the bootloader and will appear in the selected line when ready.

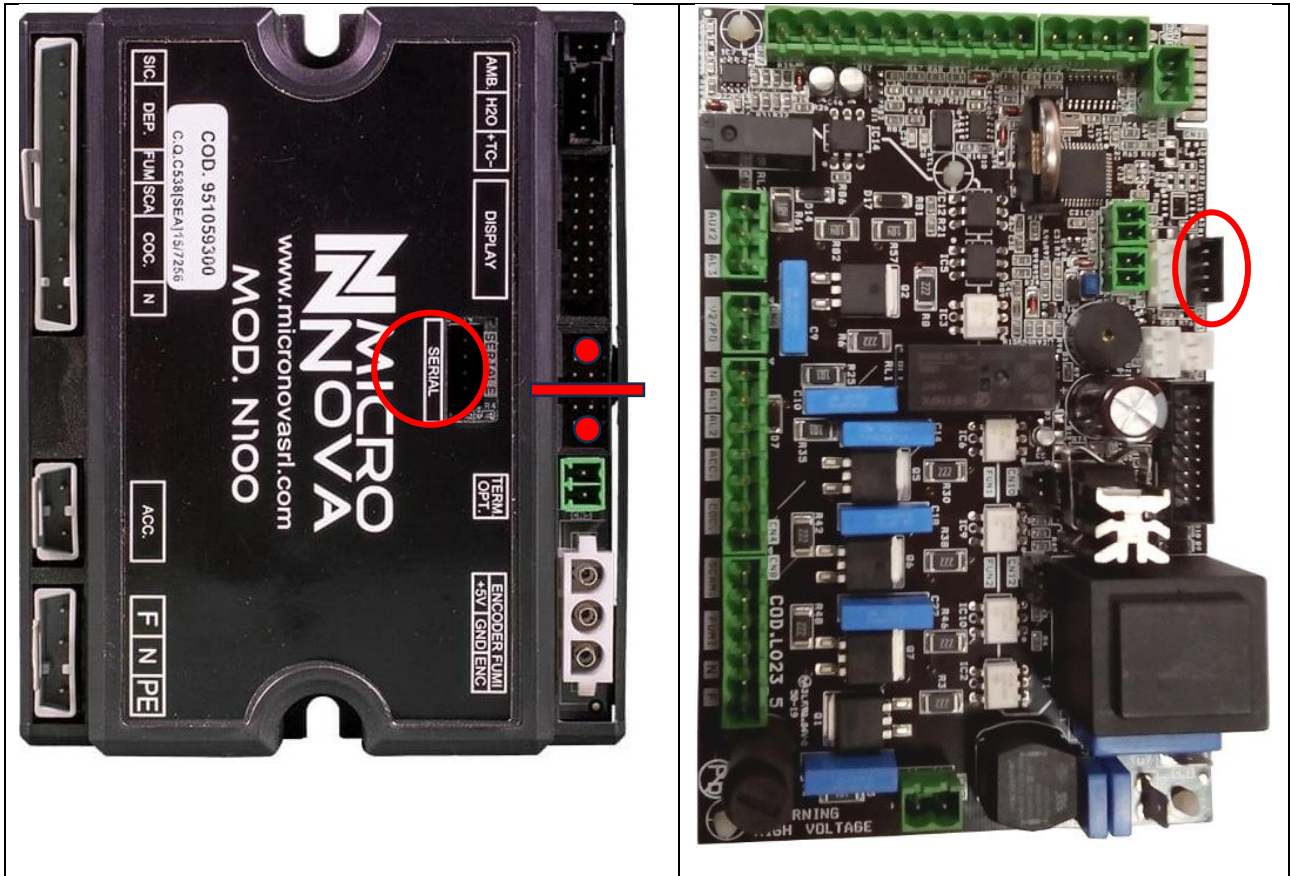3. When finished, remove the bootloader from the USB connection.

Flashing the firmware to the control board

1. On the side of the bootloader, switch to the number corresponding to the position where the firmware was placed in the *Gestione Bootloader* program:

2. Ensure that the stove is turned off, and that the power has been disconnected.

3. Disconnect the Wi-Fi module while performing the update. Connect one end of the serial cable to the bootloader and the other end to the control board:

P1/P4	P5
Remove the Wi-Fi cable from the Wi-Fi board and connect the bootloader to the serial port.	Remove the Wi-fi cable and connect the bootloader to the same port (i.e., the Wi-Fi port).

4. Turn on the stove. The bootloader will begin to flash green. The installation is complete when the green light is constant.

5. Turn off the stove. Remove the bootloader and reinstall the cables to the Wi-Fi module.

<u>The flashing of firmware is now complete.</u>

Initializing the firmware

Before the firmware settings can be applied, the correct data bank needs to be loaded. To do this, please follow the instructions in the article: <u>How to reset the data bank on Aduro pellet stoves</u>.

Keywords: Update, firmware, pellet, stoves, control, board, P1, P4, P5, Aduro, reset, data, bank