

Update: GrowControl WiFi Controller “Beta Version”

Version: ...0.02.02b

Applicability:

WiFi controllers connected via the subdomain **connect.growcontrol.de**.

Terms:

OTA (Over-the-Air) via Wi-Fi/Internet

GUI (Graphical User Interface) Website **connect.growcontrol.de**

Procedure:

The update consists of two steps

1. Update the Wi-Fi module’s firmware to version ...0.01.16p (patch) (OTA)
2. Update the firmware of the Wi-Fi module and the main controller to version ...0.02.02b (OTA)

Alternatively, the firmware of the Wi-Fi module and the main controller can also be updated via a USB flash drive. In this case, it is essential to update the Wi-Fi module first. In this case you can go directly to version ...0.02.02b.

Known issues or pitfalls during the update:

- The main controller update must be confirmed in the controller menu. Without confirmation, the update will fail.
- During the OTA update (main controller), an error may occur where “Flash init” appears on the display and nothing else happens.
Solution: Disconnect the power supply, reconnect it, and try again.
This issue has already been resolved for the future updates.
- During an OTA update (main controller), an error may occur where “Receiving File ERROR CRC!” appears on the display and nothing else happens.
Solution: Disconnect the power supply, reconnect it, and try again.
This issue has already been resolved for the future updates.
- The firmware version displayed in the web interface sometimes does not update until after switching tabs or even until the page has been reloaded.
- The first update does not complete successfully, and the displayed firmware version of the Wi-Fi module is not updated to ...0.01.16p.
Solution: Try again.

OTA Update Instructions:

1. In the GUI, go to the SYSTEM tab → , then the FIRMWARE section
2. Select the new firmware file under “Firmware Update,” then click “Perform Update” and “Apply”
- 3. If a main controller update is being performed, it must be confirmed on the display**
4. It takes several minutes for the controller to reconnect after the update (status: green). The controller must not be disconnected from the power supply during the update.
5. After a successful update, success messages and the new firmware version are displayed in the SYSTEM section

In this update, only the Wi-Fi module is updated in the first pass, and the main controller and the Wi-Fi module are updated in the second pass

In addition to many other changes—not all of which are immediately visible—the following new features have been added:

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- **Heating settings**

The heating control now operates relative to the room temperature setpoint, making heating behavior simpler and more consistent.

- **Time**

The time is now synchronized with the Internet time once per hour. There is still no automatic switch between daylight saving time and standard time.

- **Fan settings**

Improved handling of conflicts between the fan's minimum and maximum values

- **CO₂ control**

Minor stability improvements, particularly during day-night transitions

- **Alarms**

Improved alarm handling and more reliable email notifications

- **Wi-Fi setup**

Improved Wi-Fi setup page

- **Firmware update**

The update process is now more reliable and robust

- **USB update file**

Improved handling of USB flash drives and update files

- **Overall stability**

Several improvements to reduce connection issues, crashes, and unreliable behavior.

USB Update Instructions (not generally recommended):

1. The firmware files are available for download here: <https://growcontrol.de/downloads-wifi>
2. A USB 2.0 flash drive formatted as FAT32 is required for the update.
3. Copy the firmware files to the root directory of the flash drive and insert the flash drive.
4. Restart the controller (unplug and plug it back in)
5. Start the Wi-Fi module update via the controller menu: Wi-Fi Info & Settings → Start Wi-Fi USB Update → Select the file and confirm with OK
6. Update the main controller: Controller menu: System Settings → Restart the controller → Confirm with OK and briefly press and hold the button. Detailed instructions can be found in the user manual for the controller without Wi-Fi or on the Downloads page mentioned above.