

GrowSphere™

Manual Firmware Upgrade process

Purpose

The purpose of this document is to provide instructions for Manual Firmware upgrade process for the GrowSphere™ MAX controller (PLC).

Preparation

1. SD Card

You need a clean 16-32GB SD card formatted to FAT32.

2. Download

Download the latest firmware version from the [Digital Farming Resource](#) section of the Netafim USA website.

Upgrade Instructions

1. Extract the Files

The download is a .zip file. Extract the files and folders to a known location on your computer. You will see these five items:

Name	Type
 FIRMWARE	File folder
 USERDATA	File folder
 SDCARD.INI	Configuration sett...
 Version.txt	Text Document
 Version.txt.sig	SIG File

2. Load the SD Card

Copy these five items and paste them onto your prepared SD card.

3. Insert the Card

Power off the Controller (PLC). Remove the original SD card and insert the new SD card containing the firmware files.

4. Start the Update

Power on the Controller. The **RUN** and **ERR** LEDs will blink every second once the system detects the new firmware.

5. Wait for Completion

Wait approximately five minutes. The update is complete when only the **RUN** LED blinks.

6. Reboot the System

Power off the Controller and remove the SD card. Power the Controller back on.

7. Finalize

Wait one minute. The Controller will reboot automatically. It will resume full function within three minutes.

8. Last step

Insert the original SD card.