

User Guide

Climax Products Firmware Update

Version 1.0.4

CLIMAX[®]

User Guide

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(1.0.4)

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Introduction

This document describes how to update Climax modules firmware to the latest available version by using *Climax Firmware Programmer* software. This software is used to update all Climax modules firmware. Given that the latest firmware version come up with modifications which cause modules to have faster performance, less bugs or more features, it is highly recommended to keep your modules firmware up-to-date with the latest version.

Requirements

- PC or Laptop
- Microsoft Windows Operating System
- Microsoft.Net Framework 4.5 Software
- USB to RS-485 Converter or USB to Serial RS-232 Converter
- Climax Module
- Latest Firmware Version of Module
- *Climax Firmware Programmer* Software
- Power Supply

Overview of the Updating Process

Find the latest version of firmware and check whether your module firmware is up-to-date. Refer to driver user guide, to see how to find your module firmware version.

If the module firmware needs to be updated follow the process bellow:

- 1- Download *Climax Firmware Programmer* software and latest firmware version of the module from <http://Climaxgroups.co.uk/Download/>
- 2- Connect the module to the PC.
- 3- Run *Climax Firmware Programmer*.
- 4- Select the corresponding port in *Com Port Settings* pane.
- 5- Browse and select the appropriate firmware file (.bin extension).
- 6- Connect the main power.
- 7- Press *Update* button.

Process of updating a Climax firmware in detail

1. Download *Climax Firmware Programmer* and latest firmware version of the module

Get the *Climax Firmware Programmer* file from <http://Climaxgroups.co.uk/Download/> as well as last version of the module firmware.

Following table is an instruction that relates Climax products to their corresponding firmware file name.

Table 1.

File Name	Actuator Module.bin	Gateway.bin	GSM Modem.bin
Climax Products	12 Channel Input Sensor	RS-232 GatewayPro	GSM Modem
	8X8A Relay Module		
	2 Channel Micro Relay		
	CP Micro Relay		
	2X5A Micro Relay		

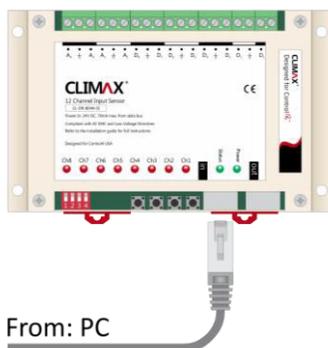
2. Connect the module to the PC.

Depending on the type of the module, different converters are needed to connect the module to the PC.

Table 2.

RS-232 Modules

Connect the module to the PC via RJ45 jack labeled *IN* (left one) using a *USB to serial RS-232 and DB9 to RJ45 Converter*.



RS-485 Modules

Connect the PC to the module using a *USB to RS-485 Converter*.

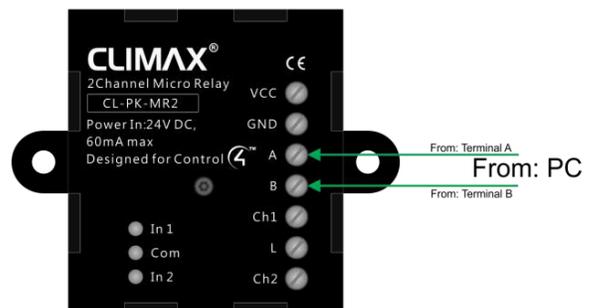
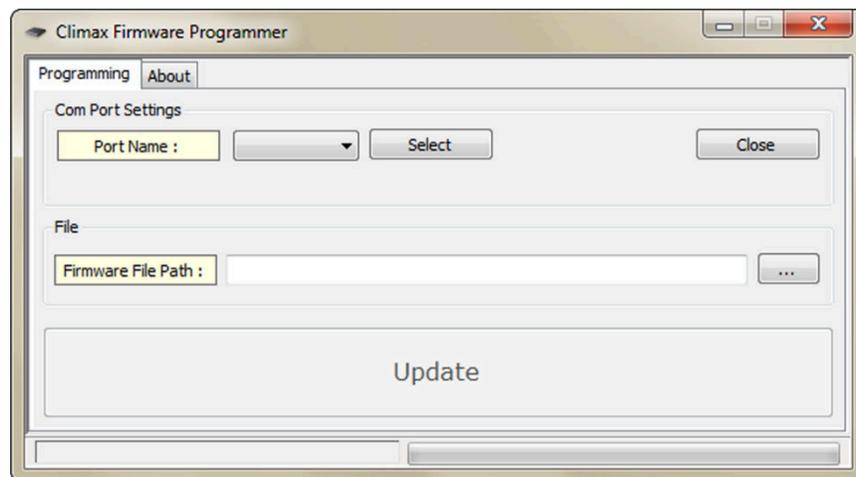


Table 3.

USB to Serial RS-232 Converter	DB9 Serial to RJ45 Cable	USB to RS-485 Converter
		

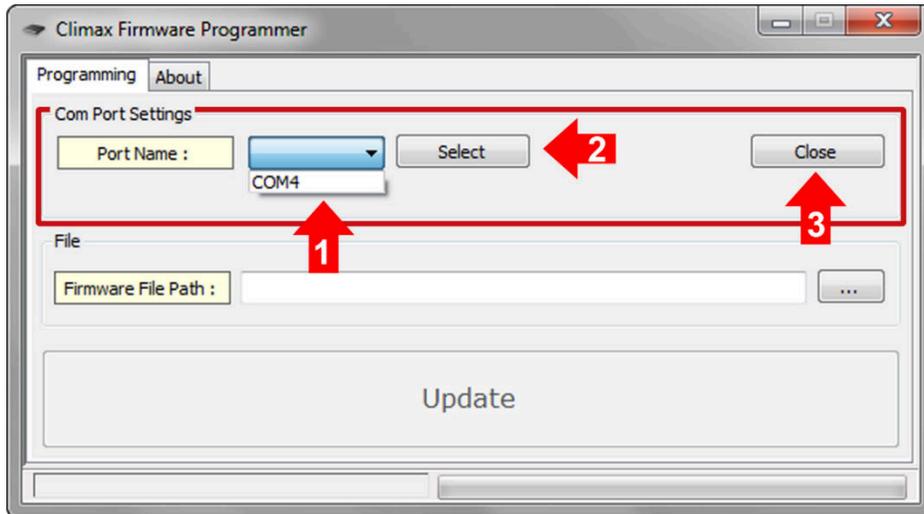
3. Run Climax Firmware Programmer.



4. Select the corresponding port in *Com Port Settings* pane.

Considering which PC port is used to connect your module physically to the PC, select the corresponding port in *Com Port Settings* pane and press the *Select* button.

Make sure that the port is open. It is open when *Change Port Status* button is shows *Close*. (As shown in the picture)

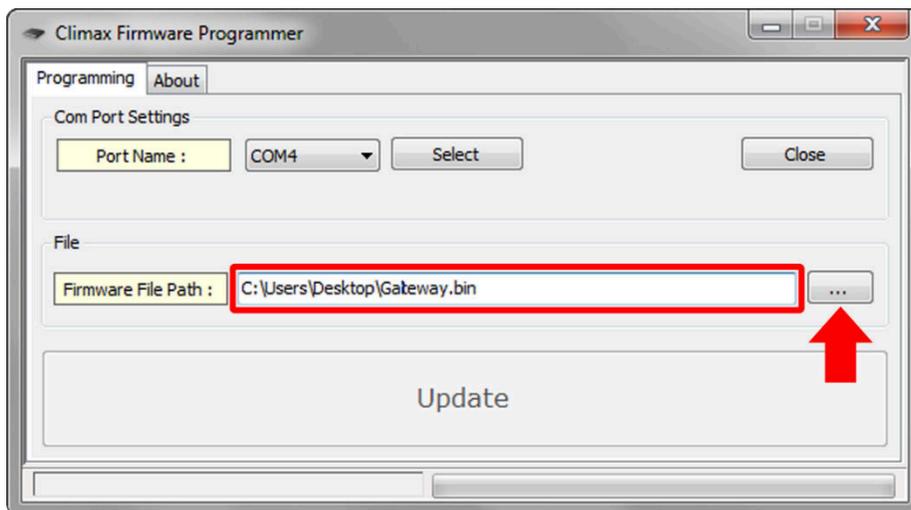


Notes:

- In order to make sure you have selected the correct port, refer to device manager on your PC.
- The *Port Name* list will be refreshed each time you run *Climax Firmware Programmer*. If you add a new port to your computer, close and open the software again.

5. Browse and select the appropriate firmware file (.bin extension).

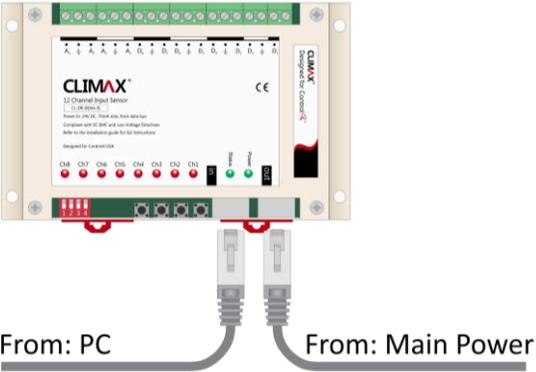
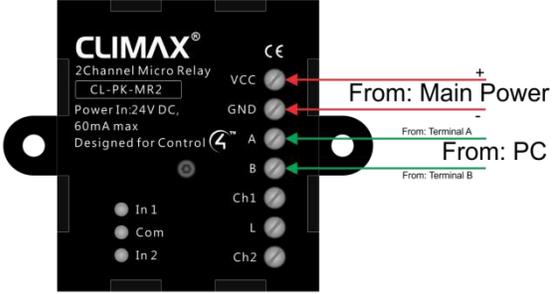
In the *file* pane browse and select the appropriate firmware file (.bin extension) according to the table1.



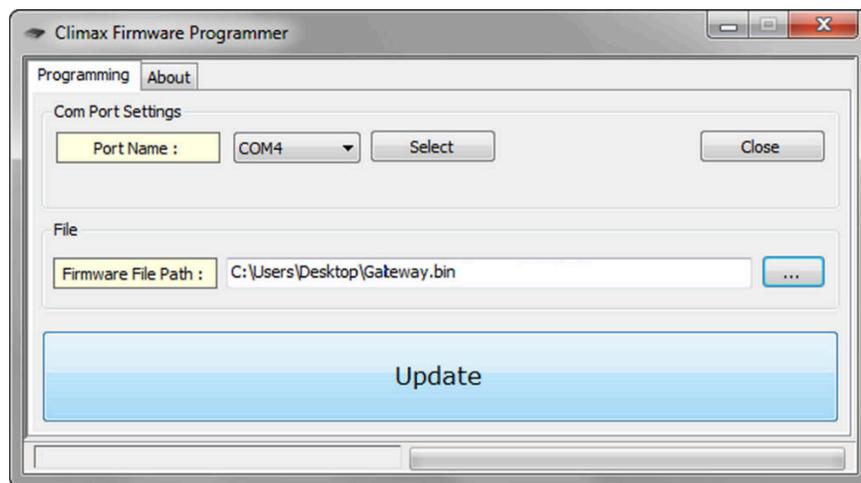
6. Connect the main power.

Recheck the connection between your module and the PC. Connect the main power to the module according to the following instruction.

Table 3.

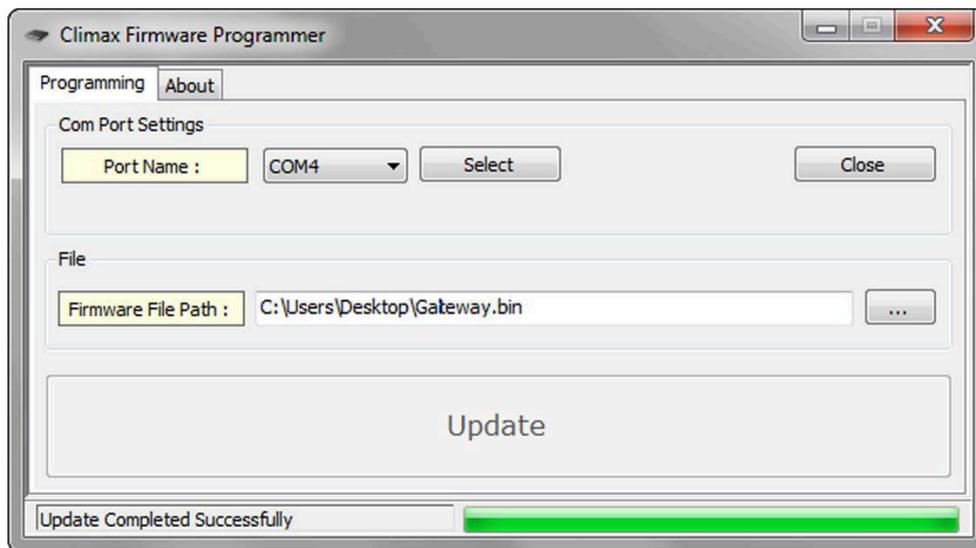
RS-232 Modules	RS-485 Modules
<p>Connect the main power to the module via RJ45 jack labeled <i>Out</i> (right one).</p>	<p>Connect the main power to the module via VCC and GND terminals.</p>
	

If the main power is connected properly to the module *update* button will be enabled.



7. Press the **Update** button.

After pressing the *Update* button, the message “*Sending firmware data*” will appear. “*Update completed successfully*” message shows that updating process is finished.



Warning: Never unplug any connection during updating process.