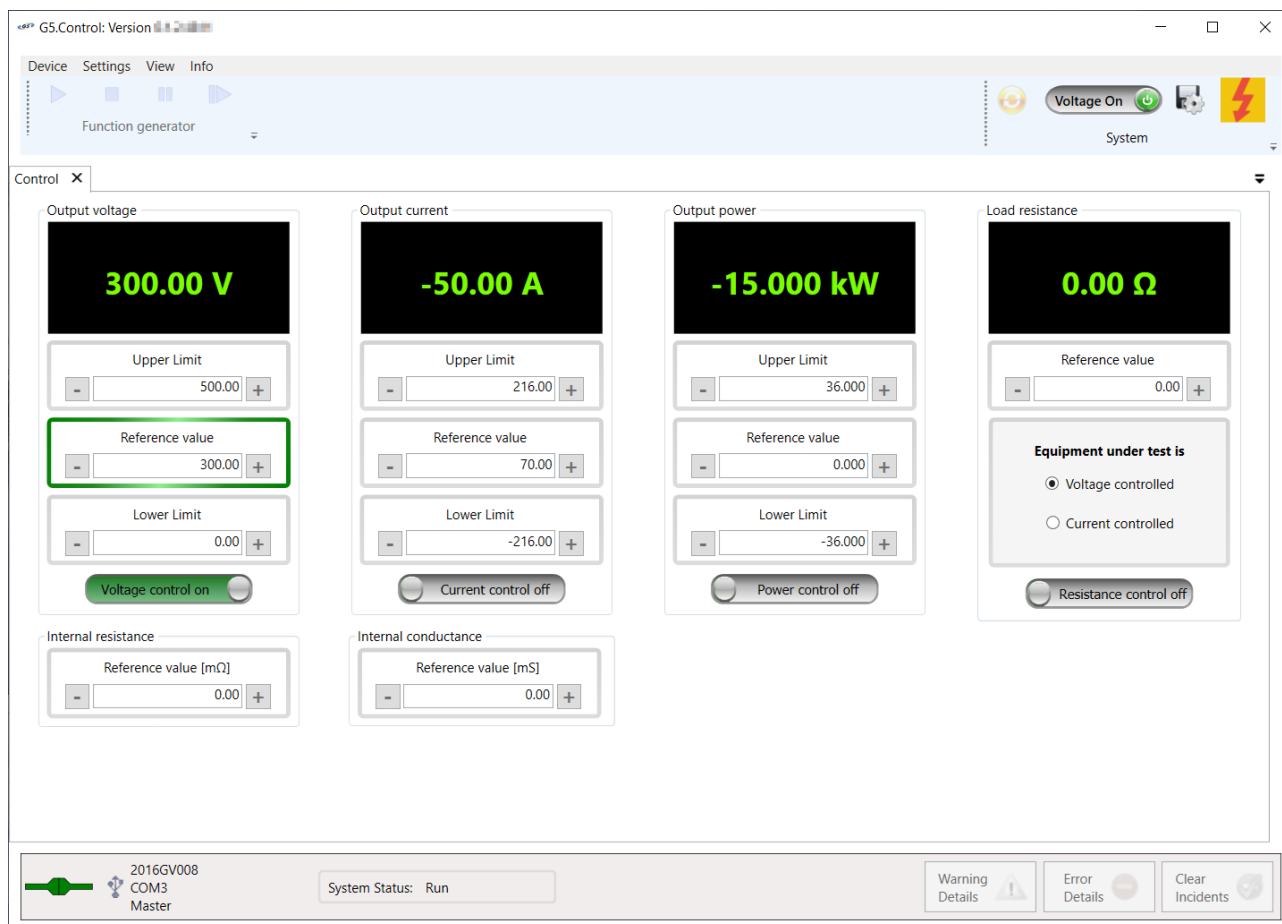


G5 series

Firmware Update

Version 01.01



Purpose of this document

This step by step manual provides information on the handling of a modification, inspection or repair as stated in the title. It serves as a guide and reference work. This document shall only be used for the described work as stated in the title. Only use this document if provided by Regatron AG or an official reseller / representative. The operating instructions must be available at all times to the personnel who are performing the inspection, repair or modification.



WARNING

Mortal danger due to electric shock!

- Due to the high operating voltage of the device and possible arcing in related applications, there is a risk of injury!
- The unit supplies dangerous voltage and current.

Avoidance:

- ⇒ Read the device operating manual (in particular the section safety) before you put the power supply in operation, connect or disconnect a load.
- ⇒ Read this step by step manual carefully, in particular the chapter 1.
- ⇒ Ensure that nothing and nobody will be endangered by this voltage before operating the power supply.

Conventions used




Hazard and warning information	
Pictogram	Meaning
 DANGER	For an immediate hazard that will result in serious injuries or fatality.
 WARNING	For an immediate hazard that can result in serious injuries or fatality.
 CAUTION	For a possibly hazardous situation that can result in serious injuries or fatality.
CAUTION	For a possibly hazardous situation that could result in damage to the product or another item in its surroundings.

Table 1: Hazard and warning information






Further warning and hazard information	
Pictogram	Meaning
	DANGER, WARNING or CAUTION due to electrical power
	DANGER, WARNING or CAUTION related to suspended load
	HEALTH HAZARD caused by substances (or mixture of substances). (H302)
	GHS08 CAUTION possible health hazard caused by substances (or mixture of substances). (H361, H373)
	WARNING Electrostatic-sensitive device

Table 2: Further warning and hazard information


Instructions	
Pictogram	Meaning
	Important information

Table 3: Instructions


General notes	
Pictogram	Meaning
	Tip, for working efficiently with the device

Table 4: General notes

Open questions

If you have any questions, your TopCon sales partner will be pleased to be of assistance.
However, you can also reach Regatron customer support at the following address:

Customer support	
Regatron AG	Tel. +41 71 846 67 44
Feldmühlestrasse 50	www.regatron.com
9400 Rorschach	support@regatron.com
SWITZERLAND	

Table 5: Customer support

CONTENT

PURPOSE OF THIS DOCUMENT	2
CONVENTIONS USED	3
Open questions	4
CONTENT	5
1. GENERAL INSTRUCTIONS.....	6
1.1 Authorized Personnel.....	6
1.2 Opening the power supply	6
1.3 Dangerous voltages.....	6
1.4 ESD	6
2. INTRODUCTION.....	7
2.1 Abstract	7
2.2 Prerequisites.....	7
3. PROCEDURE	8
3.1 Changing the user level from Standard to Advanced.....	8
3.2 Updating the firmware.....	9
3.3 System-Hardware Reset.....	10
3.4 Changing the user level from Advanced back to Standard.....	11

1. General instructions

1.1 Authorized Personnel

The safety instructions are for electrical experts and people with an appropriate electrical education, who are authorized by the customer, are familiar with electrical hazards and who can minimize this risk. Only such authorized personnel as designated by the customer should be allowed to operate the power supply.

1.2 Opening the power supply

The power supply must only be opened by authorized personnel. Before opening the power supply, authorized personnel have to make sure, that the power supply is disconnected from the AC mains. There may be a warranty seal on the power supply.

If so, be sure you contact Regatron AG first before opening the power supply in order to avoid the loss of warranty.

1.3 Dangerous voltages

The power supply contains capacitors which discharge very slowly (typical discharge time is 10 minutes) or in the worst case, don't discharge at all (if the power supply is faulty). Therefore, use only insulated tools when working inside the power supply. Maintenance and repair of this unit should only be carried out by the manufacturer or trained service personnel who are aware of the inherent dangers of such equipment.

1.4 ESD

When opening the unit, make sure you comply with the electrostatic discharge precautions (ESD). Hence use appropriate tools and ESD compliant equipment.

2. Introduction

2.1 Abstract

These step by step manual shows how to update a firmware package on a G5 unit, by using the G5.Control software. To allow a firmware package update the user level needs to be changed from Standard to Advanced. The loaded firmware package update is activated after a system-hardware reset is performed on the G5 unit.

2.2 Prerequisites

Before a firmware package update can be done the following requirements must be met:

- Use the G5.Control software.
- The G5 unit is powered on.
- The G5.Control software is running and a connection from the software to the G5 unit is established.
- The G5 unit is in "Voltage Off" state before performing the firmware package update.



CAUTION: Do not restart the device until instructed to do so by this Step by Step Manual.

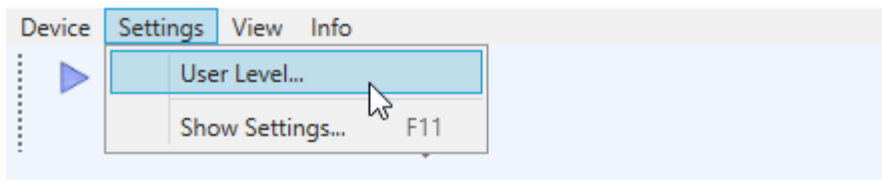


It is recommended to connect via Ethernet rather than USB due to transmission speed.

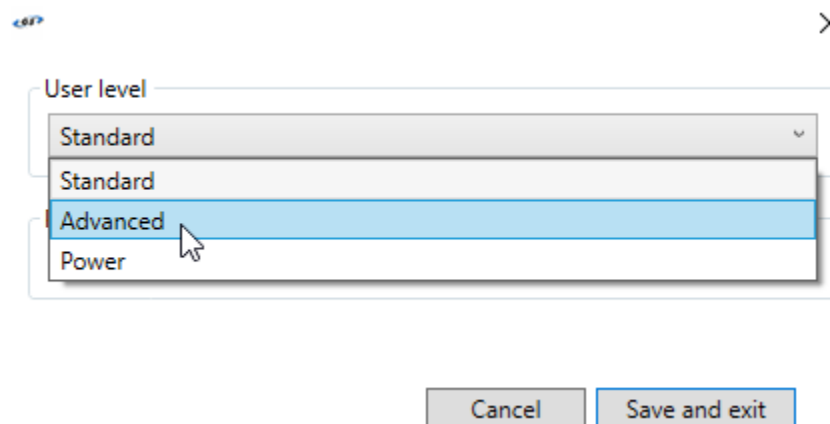
3. Procedure

3.1 Changing the user level from Standard to Advanced

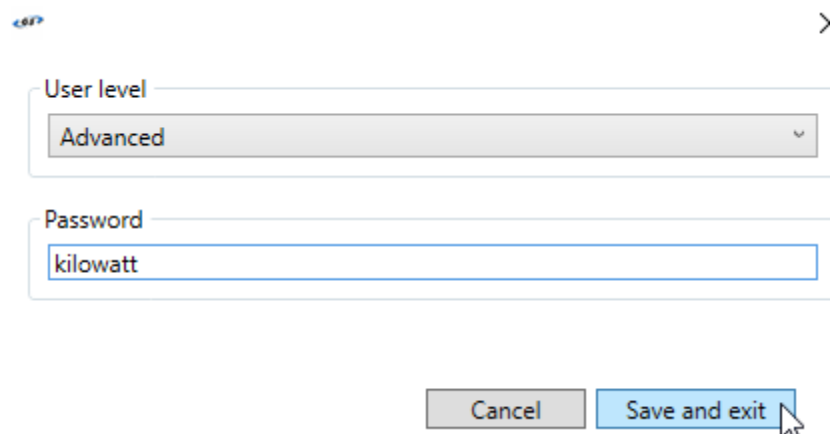
1. Click on “Settings” and “User Level” in the menu bar of the G5.Control software:



2. Click on “Standard” in the box “User level”. A drop down menu opens. Now click on “Advanced”:

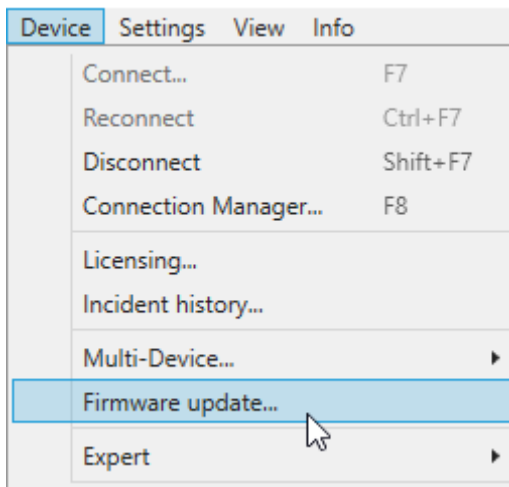


3. Enter the password **kilowatt** and click on “Save and exit”:



3.2 Updating the firmware

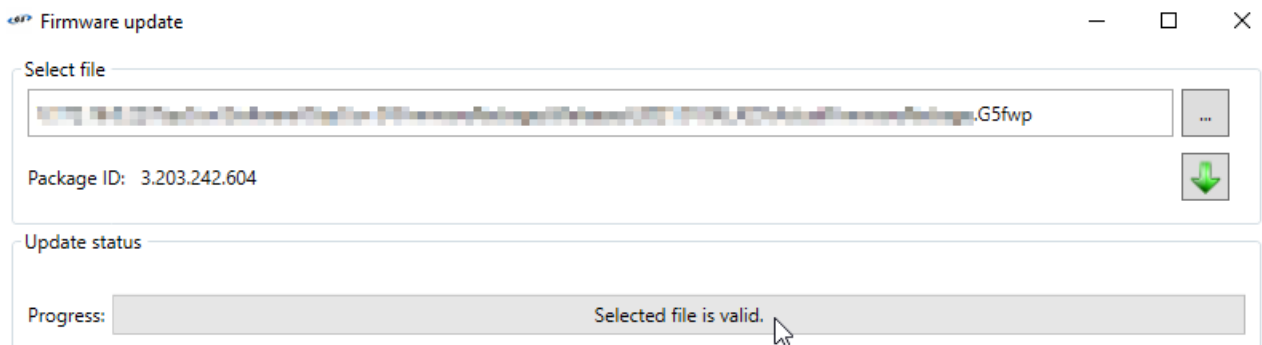
1. Click on “Device” and “Firmware update” in the menu bar:




2. Click on the icon  to select the provided firmware package file, with the file format “G5fwp”:



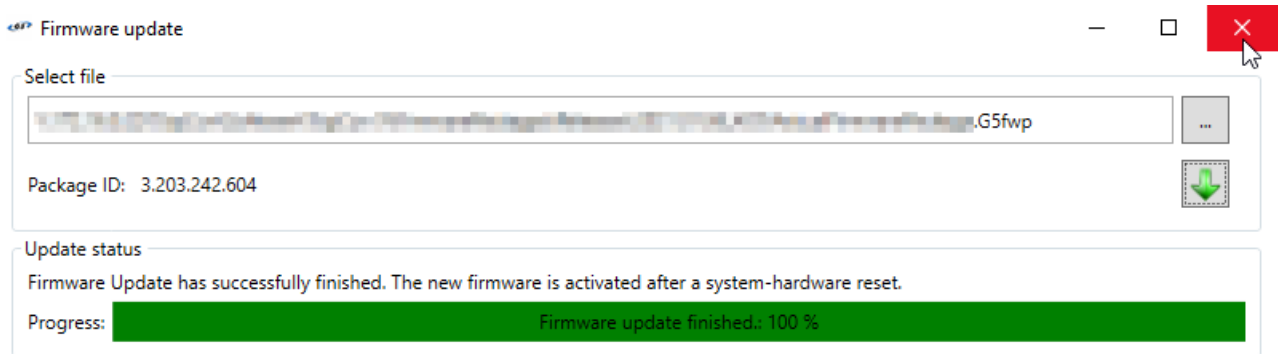
3. Check if the message “Selected file is valid” is shown in the box “Update status”:



4. Click on the icon  to update the firmware. This takes a few minutes and is visualised by a progress bar.

Note: Depending on how many update files are included in the package the progress bar will be filled up several times. Details will be written between “Update status” and “Progress”.

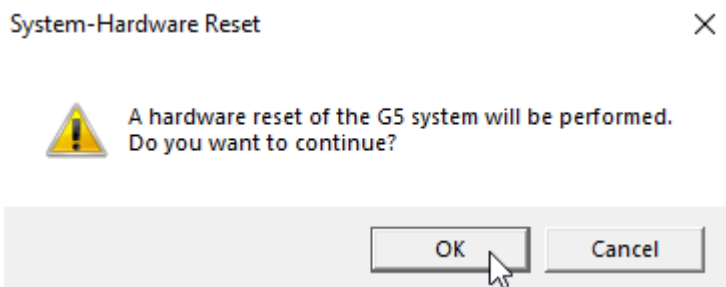
- Once the box "Update status" says "Firmware Update has successfully finished" the window can be closed:



Note: The new firmware is activated after a system-hardware reset.

3.3 System-Hardware Reset

- Click on the icon  in the top right of the G5.Control software. A window alike the one below opens:

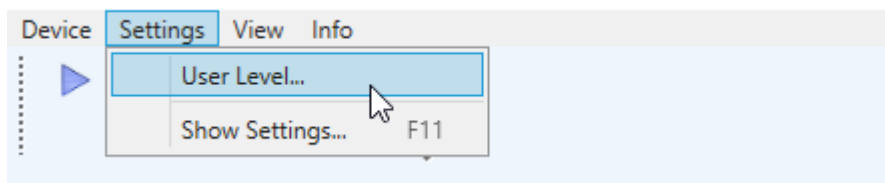


- Click on "OK" to continue.

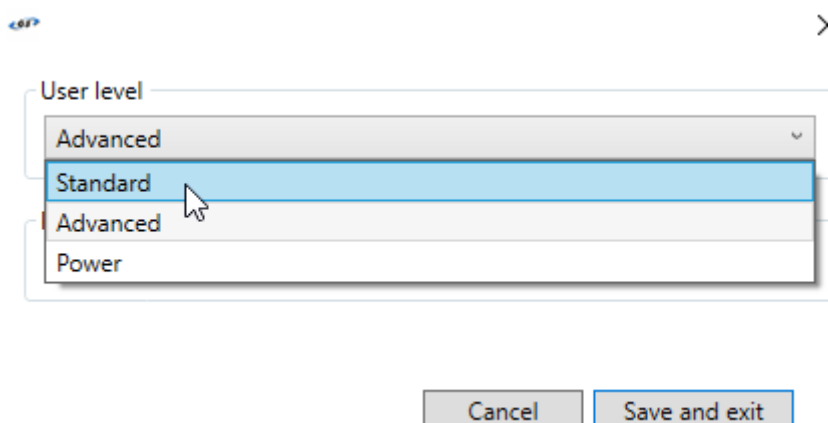
Note: The G5 unit will reboot and lose the connection to the G5.Control software.

3.4 Changing the user level from Advanced back to Standard

1. Click on "Settings" and "User Level" on the menu bar:



2. Click on "Advanced" in the box "User level". A drop down menu opens. Now click on "Standard":



3. Confirm the "Standard" user level by clicking on "Save and exit".

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