

**USER MANUAL**

**MU 7132 EN A**

**UPDATE OF THE GRAVICOMPT UNI-2**

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A	2025/04/28	Creation Applicable to all Gravicompt UNI-2 software versions except freeze mode, which works from version 449_V2.0.11.	ITB	EB
Issue	Date	Nature of modifications	Written by	Approved by

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## 1 PRECONDITIONS

The GRAVICOMPT UNI includes the UNI-2.

You must have:

- ⇒ A computer equipped with a micro-SD memory card reader or SD memory card reader (in this case, a micro-SD card adapter is required)
- ⇒ Updated files: application, database, bootloader and language catalogues available on the extranet

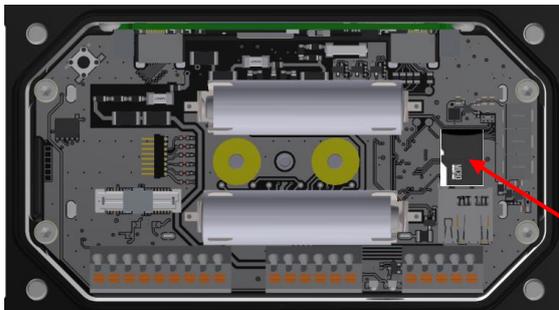
**NOTE:** If there is a risk of losing product labels or certain characters, make a note of the parameters for each product by going to the menu SUPERVISOR / PARAMETERS / CONFIG / PRODUCT and then reset them as originally via the metrology menu (See MU 7081)

## 2 UPDATE OF THE CALCULATOR



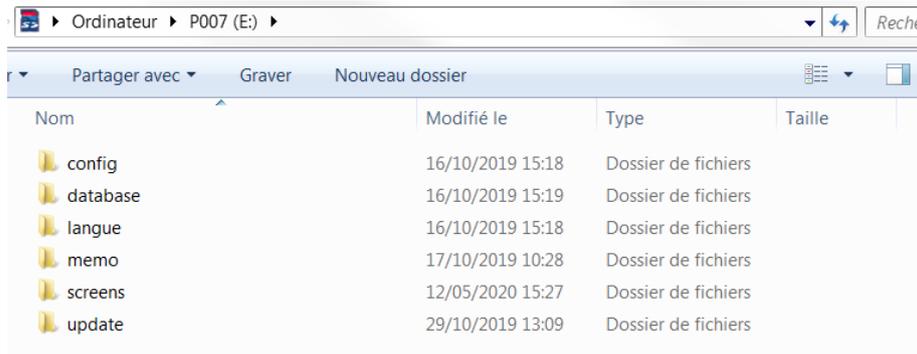
Only approved persons are permitted to carry out this operation

- ⇒ Charge the batteries beforehand, leaving the calculator switched on via the external power supply (circuit breaker closed) until the battery voltage is above 2.6 V. (The battery voltage can be consulted in the menu SUPERVISOR / MAINTENANCE / CIRCUIT INFO).
- ⇒ Switch off the electricity supply to the meter (truck circuit breaker open).
- ⇒ Remove the seal and open the calculator
- ⇒ Push in the microSD card, release it then extract it:



Micro-SD card

- ⇒ Put the card into the reader of the computer
- ⇒ Wait for the device to be installed on the computer:



⇒ Copy the entire contents of the UNI SD card to a PC for backup purposes.

⇒ On the computer, copy or delete the files according to the update you want to perform. Follow the table below:

Update	Folder	Folder contents	Action
<b>Database</b>	database	Database	<ul style="list-style-type: none"> <li>- Delete the existing file</li> <li>- Copy the database update</li> <li>- Make sure there is only one .csv file in that folder</li> </ul>
<b>Languages</b>	langue	Languages catalogue(s)	<ul style="list-style-type: none"> <li>- Delete the existing files</li> <li>- Copy the catalogue(s) of the relevant app</li> </ul>
<b>App</b>	update	Application	<ul style="list-style-type: none"> <li>- Delete existing file</li> <li>- Copy the software update file</li> <li>- Never put two versions of the '.bin' application file in this folder</li>   <li>- An Application file is named '449Vxx.xx.xxx' and the</li> <li>- A Bootloader file is named '448Vxx.xx.xx'.</li> </ul>
<b>DO NOT TOUCH the files in the folders below</b>			
	config\metro	Metrological parameters	DO NOT TOUCH
	config\supervi	Supervisor parameters	DO NOT TOUCH
	memo	Application memorised data	DO NOT TOUCH

⇒ Put the micro-SD card back into the UNI-2 calculator.

⇒ Switch the UNI back on (closed truck circuit breaker)

⇒ A blue LED on the left side of the display flashes for 10 seconds to report the update.

⇒ If the message " Please charge bat. " is displayed at the top of the screen on restart. Please change the power supply mode of the UNI by going to the menu SUPERVISOR / MAINTENANCE / POWER SUPPLY and select EXTERNAL.

Following an update, the 'metrological' alarm may appear:

- Go to the metrology menu using the METRO push-button on the rear of the ECU to switch to METROLOGICAL mode.
- Check that all the parameters linked to the date and time in metrological mode are correct (Time zone UTC and Season) as well as the rest of the metrological parameters.
- Press the push-button again to exit METROLOGIC mode and return to user mode.

⇒ Acknowledge any alarms by pressing the green VALID button. 

If the date and time are not displayed on the screen and the "Alarm: Date Time" alarm persists, go to the CONNECTIVITY Menu and activate GPS to start synchronisation.

**NOTE:** Following the update, check at least that the automatic date and time recovery setting is still active.

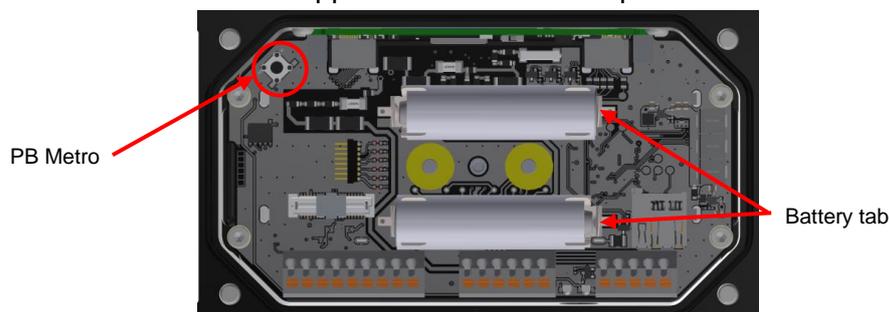
- Menu SUPERVISOR / Date Time / **Automatic: ON**
- Or via the Metrology mode, Date time / **Automatic menu: ON**

The gas detectors can be recalibrated for safety reasons (**the DGs must be dry**) via the metrological mode, menu **Meas. System/Detector: select OFF then ON**. Then return to user mode using the pushbutton on the back of the ECU.

**NOTE:**

If the blue LED does not flash, push the BP Metro twice

If the blue LED is still not flashing, repeat the above steps to read again the micro-SD card and make sure the application file is in the update folder.



Following the update phase (blue LED flashing), the calculator restarts. If the battery voltage is below 2.6 volts, the ECU may switch to freeze mode to charge the batteries.

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	This document is available on <a href="http://www.alma-group.com">www.alma-group.com</a>	

**NOTE :** Please close the truck circuit breaker to finish charging the batteries.

Freeze mode locks the calculator in a waiting phase until the batteries are charged. The calculator will display the message 'Low battery, Keep external supply on' in the middle of the screen. The calculator will light up a red LED on the left of the screen to indicate that the batteries are being charged. If the external power supply is cut off (truck circuit breaker open), the red LED will go out.

**NOTE :** Please close the truck circuit breaker to finish charging the batteries.



### 3 CLOSE THE CALCULATOR ACCORDING TO THE REQUIREMENTS

- ⇒ The ring must be replaced properly. Lubricate it, if necessary
- ⇒ Put a new 2g dehydrating packet – silica gel in the box



**WARNING: RISK OF IRREVERSIBLE DAMAGES TO THE SCREEN**

Close the box without damaging the wires

- Make sure the wires do not get caught between coils or batteries and the body of the turbine
- Make sure the wires do not get caught between batteries and their holding foam