

# FAQ GMSplus Main Battery Replacement

## 1. Introduction

- This procedure describes how to replace the internal lead-acid (main) battery of a GMSplus.
- In most cases the main battery should be replaced every 3 years or when a related error is reported by the recorder.
- A good main battery powers the GMSplus in case of a power outage or interruption and provides redundancy for the system.

# 2. Required Tools

- GMSplus
- Replacement battery (see GMSplus User Manual for more information)
- Hex (Allen) key, size 5
- · Computer with access to GMSplus

# 3. Disassembly

- Remove the instrument's lid by unscrewing the 4 hex screws
- Turn off the instrument by pushing the power button for 5 seconds



- · Wait until the instrument is completely turned off (only AC LED is on), then disconnect AC and all the other connectors
- Disconnect the main battery



- Remove the battery holder by undoing the two securing screws (size 5 hex key)
- · Remove the old battery

#### 4. Installing the new battery

- · Remove the cable/leads from the battery
- Observe the polarity marking of the new battery (+/- sign and/or colour of the battery terminal) and connect the cable to the new battery accordingly (red wire to + terminal, black wire to terminal)
- Install the new battery to the housing and secure it with the battery holder and the two screws
- Connect AC and all the other connectors
- · Connect battery connector
- Turn on the instrument by pushing the power button for 5 seconds

#### 5. Set main battery installation date

• The main battery installation date can either be set from GeoDAS (5.1), through the webinterface (5.2) or from GMSplus serial console (5.3)

## 5.1 Set main battery installation date from GeoDAS

• In GeoDAS window **Stations: General Information**, right-click on the station and choose **Instrument Control...** -> **Send a Request -> SETBATDATE YYYY-MM-DD main -> [Send]** 

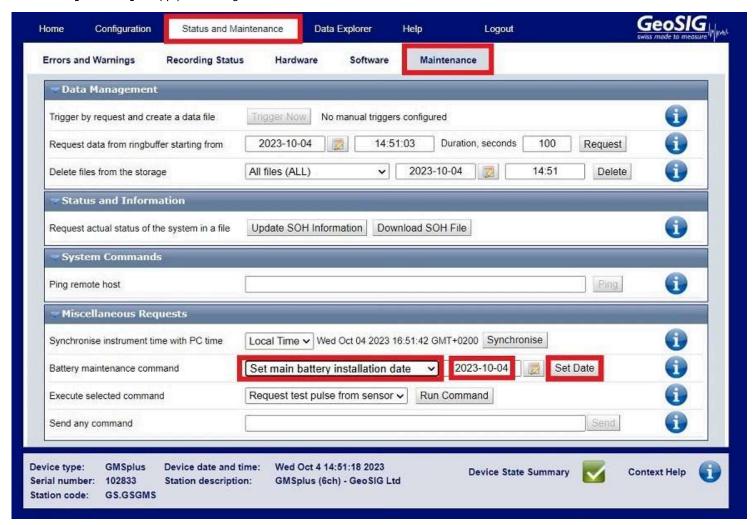


# 5.2 Set main battery installation date from Webinterface

• Open your webbrowser, enter the IP address of your GMSplus and login as admin (default password 123456)

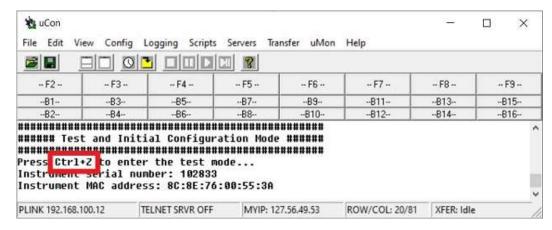


- Choose tab Status and Maintenance -> Maintenance
- Under **Battery maintenance command**, choose **Set main battery installation date** from the dropdown and enter the replacement date in format YYYY-MM-DD in the next field
- Click [Set date] to apply the change

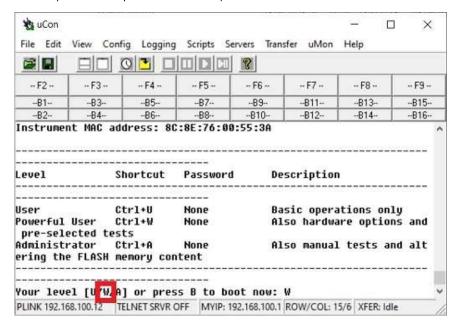


# 5.3 Set main battery installation date from Serial Console

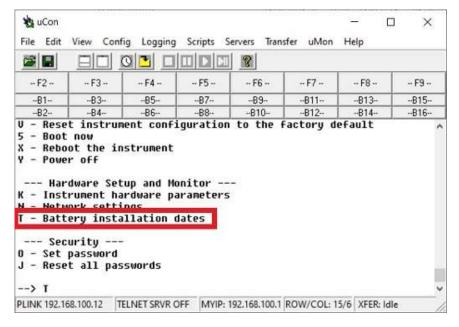
- Connect the serial console of the GMSplus to your computer
- Turn on GMSplus
- Press Ctrl+Z as soon the below message appears on the console to enter the test mode.



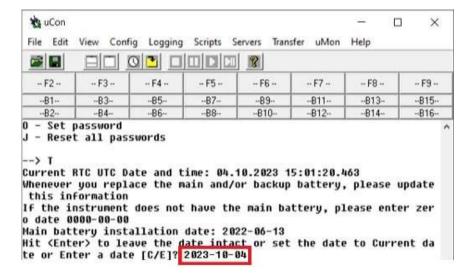
• By default no passwords are set, select **W** to enter the Powerful User Mode



• Select **T** to enter the menu Battery installation dates



- · Set the Main battery installation date by pressing C or E, use format YYYY-MM-DD if needed
- · Confirm with Enter



- Press **Enter** to skip setting the Backup battery installation date
- Choose X and press Enter to initiate a reboot that will apply the changes

