

## Advantage Firmware Rev. H Update

### **\*IMPORTANT\***

- **Fully charge battery prior to executing the procedure.**
- **Utilize a formatted USB drive containing no other files.**
- **Remove Win 10 "System Volume Information" folder from USB drive prior to use.**
- **The USB drive should be detectable by the Celltron Advantage tester.**

### Preparing for update

1. On a PC, unzip the celltronadvantage\_revH.zip file.
2. Open the KIT Update folder.
3. Update Part 1 and Update Part 2 folders will contain the required files.

### Updating Celltron Advantage Revision A – D to Revision H

1. Open the Update Part 1 folder.
2. Copy the FIRM\_1.MT1 and FIRM\_2.MT1 files onto the formatted USB drive.
3. Insert USB drive into Advantage USB Port. Wait 30 seconds for the USB port to initialize.
4. On the Advantage, select Data Manager, Update.
5. Allow time for the unit to reprogram (~5 mins)
6. After Installation, remove the flash drive.
7. Remove FIRM\_1.MT1 and FIRM\_2.MT1 files from USB drive
8. Open the Update Part 2 folder.
9. Copy the EEPROM.MT1 and FLASH.MT1 files onto the cleared USB drive
10. Insert USB drive into Advantage USB Port. Wait 30 seconds for the USB port to initialize.
11. On the Advantage, select Data Manager, Update.
12. Allow time for the unit to reprogram (~5 mins)
13. After Installation, remove the flash drive.

### Updating Celltron Advantage Revision E - G to Revision H

1. Open the Update Part 1 folder.
2. Copy the FIRM\_1.MT1 and FIRM\_2.MT1 files onto the formatted USB drive.
3. Open the Update Part 2 folder.
4. Copy the EEPROM.MT1 and FLASH.MT1 files onto the USB drive. The four files will be programmed together onto the unit.
5. Insert USB drive into Advantage USB Port. Wait 30 seconds for the USB port to initialize.
6. On the Advantage, select Data Manager, Update.
7. Allow time for the unit to reprogram (~10 mins)
8. After Installation, remove the flash drive.

## Advantage Firmware Rev. H Update

### Reviewing Revision H

After Installation, from the MAIN menu select HELP.

Code Versions should be as follows:

CPU FW: 192-320246H

DSP FW: 192-320247F

EEPROM: 192-330385G - **5000 KIT**

EEPROM: 192-330386G - **5200 KIT**

EEPROM: 192-330387G - **5500 KIT**

FLASH: 192-350311H

VINC: 3.68

### Enhancements

- Added ability to scan/display battery temperature
- Added ability to edit battery temperature
- Enhanced Temperature capture test flow for each battery
- Added 18V battery testing capability
- Added warning buzzer when measured values are outside set thresholds
- Added warning buzzer when measured conductance is zero
- Added German language updates
- Added display of Vinculum Firmware to version screen

### Bug Fixes

- Corrected import function to allow import of CDI files containing small system hierarchies
- Corrected USB initialization message displayed during Export/Import
- Corrected export function for a selection of one string
- Corrected display of strap resistance value when value is greater than 999 $\mu\Omega$
- Corrected internal battery pack voltage thresholds to denote low internal battery prior to conductance testing and during power on.
- Corrected numeric scrolling function
- Corrected DMM DC voltage threshold for over voltage
- Corrected Expansion Module display