

TRITEK-UC Revision History

VERSION 228 (18 December 2025)

Pre-close delay

Issue:

1) If both auto close and the pre-close delay was enabled and the beam was blocked after the auto close timer timed out but before the pre-close delay timed out, the controller would not restart the auto close timer.

Fix:

1) If the beams are blocked during the pre-close delay the controller will now reset the auto close timer.

VERSION 227 (13 October 2025)

Features:

- 1) The Pulse output can now be set via the Modes of Operation screen to be pulse on trigger, pulse on opening or high when gate opening. This allows synchronization of multiple motors.
- 2) The Status output can now be set via the Modes of Operation screen to mimic the CS status output.

VERSION 226 (2 October 2025)

Features:

- 1) Lockout is now available for the home screen.
- 2) Additional information is now communicated between SMART Control and the Trittek-UC Controller.

VERSION 223 (11 September 2025)

Input filtering

Improvement:

- 1) There was an issue with event logging when the controller changes between an AC and a DC input

Features:

- 1) Active inputs are now reported via SMART Control
- 2) Party Mode can now be activated from the trigger input by keeping the input held active for 5 seconds.

VERSION 221 (11 July 2025)

Input filtering

Improvement:

- 1) This version increases the input filter duration for more robust activation.

Diagnostics

Issue:

1) Under certain conditions, the on board diagnostics could potentially report incorrect failures.

Fix:

- 1) Updated diagnostic software with additional checks.

VERSION 219 (12 June 2025)

WiFi

Improvement:

- 1) This version adds fallback functionality to allow connection to a different server if the primary WiFi server goes down.

VERSION 218 (19 May 2025)

WiFi

Improvement:

- 1) This version fixes a problem where if the dace server goes off-line, it would continuously try to reconnect, effectively blocking a LAN connection.

VERSION 217 (14 May 2025)

WiFi

Improvement:

- 1) This version now allows for router passwords up to 63 characters and router names up to 32 characters.
- 2) The display now also shows if the module is connected to a router but there is no internet access.

VERSION 216 (7 May 2025)

WiFi

Improvement:

1) This is the first official release for the WiFi module. Previous updates for WiFi were all developmental.

Loop**Issue:**

1) Multiple loop triggers could sometimes cancel the auto close timer.

Fix:

1) Additional firmware was added to ensure that the auto close timer start again after a loop trigger.

VERSION 200 (4 April 2023)**WiFi****New Feature:**

1) New features added for WiFi module

Updating**Improvement:**

1) When doing a power up update, the unit will now always replace the on board software, regardless of version software on the unit. Existing settings are stored onto the USB but NOT automatically loaded (to prevent loading of mismatched settings between EEPROM files)

2) Users and Settings can still be restored from the USB menu if required.

3) Both the Intflash and Extflash files can be on the same USB stick when doing the power up upgrade.

Charging**New Feature:**

1) Unit can now also charge LiFePO batteries. Battery selection is done at initial power up.

VERSION 137 (4 June 2021)**WiFi**

1) Space allocation for WiFi modules have been adjusted for future releases.

Log files**Improvement:**

1) Log files now also log additional information regarding power loss and restore.

Charging**Improvement:**

1) Switch over detection between 12V and 24V was improved

VERSION 134 (12 March 2021)**Charging****Improvement:**

1) The battery fault and recovery methods were improved. A loss of battery power and restore of battery power is now detected faster.

2) Battery recovery cycle was speed up to recover a flat battery faster.

VERSION 133 (2 March 2021)**Charging****Issues:**

1) During a low battery condition, the controller would display error messages for external devices that also did not have power. This caused some confusion as to the actual reason for devices not working.

2) If a 24V battery is connected and during an extended power outage the battery runs completely flat, a situation could arise when the power returns that the battery is not detected as a 24V battery.

Fix:

1) If there is a low battery condition only the low battery warning message is now displayed.

2) If a battery now runs flat completely and the controller is powered up with a battery with a low voltage, the controller will assume that the same battery is still connected. A prompt is given to the user to select if it is not the same battery but this prompt will automatically disappear once the battery voltage has recovered sufficiently.

Marker-Position sensing

Issue:

1) If the gate crashes repeatedly or the gate marker is moved or removed the controller will automatically detect that the marker is not in the correct position. When the gate is then disengaged and moved, the controller will not detect that the gate moved from its previous position that could cause the gate to crash.

Fix:

1) Hand movement of the gate marker past the marker sensor is now always detected even if the marker is in the wrong position.

VERSION 131 (13 October 2020)

Solar Charging

Issue:

1) The controller only recognized that it was connected to a DC supply once the input voltage exceeded 13.7V.

Fix:

The controller software was updated to recognize a solar input supply at 12V DC.

Party Mode

Issue:

1) When the controller is in one of the sleep modes and the gate is triggered, the controller could easily enter Party Mode if the trigger button was held in for just a bit longer than a normal quick press.

Fix:

The controller software was updated to reset the button held timer when exiting sleep mode to force a 5 second press before entering Party Mode.

Motor Runtime

Issue:

1) If Pedestrian Auto Close was used and the Auto Close Time was set for more than 4 minutes the controller would come up with a "maximum motor runtime exceeded" fault.

Fix:

The controller software was updated to reset the maximum runtime clock while it is waiting for Auto Close to start.

VERSION 130 (17 July 2020)

Charging System

Issues:

1) Power boards with V100 software on and that are running on 12V will sometimes erroneously request if they may switch over to 24V. (Power boards can only be upgraded at the factory - See comments for V126)

Fix:

The controller software was updated to filter out erroneous switching requests.

VERSION 129 (29 June 2020)

Light Output

New Feature:

A new feature was added to switch the light on and keep it on while the gate is open. The light will switch off again when the gate is in the closed position.

Time Manager

New Feature:

Auto close can now be disabled by Time Manager. This allows a gate to remain open during the day and then to auto close at night time.

Issues:

1) The on board analogue to digital (A2D) converter did not always calibrate properly resulting in a potential voltage offset.

2) It was possible to trigger the motor before the motor drivers had been activated on power up. This results in a H-Bridge fault condition.

3) When the gate was opened in pedestrian mode and auto close was disabled, the menu would not allow you changes until the gate was closed again.

Fix:

The A2D software routines were corrected.

The controller will no longer allow the motor to be triggered at power up until the motor drivers had been activated. The software was corrected to allow changes of menu settings while the gate is open in the pedestrian position with auto close off.

VERSION 126 (19 February 2020)

Controller Information

New Feature:

The power board hardware version and software versions are now available on the controller information screen.

(The power board software is only up-gradable at the manufacturing plant)

(This information is only available for power boards with a software version of 101 and higher. Software version 101 for the power board was released on 19 Feb 2020)

(PWR SW:101 HW:103)

>>FEATURES >> GENERAL SETTINGS >> CONTROLLER INFO

VERSION 124 (24 Jan 2020)

Battery Information

New Feature:

The BATTERY INFORMATION screen now also displays the TERMINAL voltage. This is the voltage a meter will measure across the battery terminals. A further small improvement was made to the boost charging to speed up the charging process when the battery is almost full on power up.

VERSION 123

Battery Charging and Sensing

New Feature:

The LOW BATTERY warning now includes the TRIP, RESTORE and CURRENT battery value to allow for better diagnostics.

A new FAULTY BATTERY WARNING message was created for when there is a battery fault such as the battery being shorted or disconnected.

Issue:

The controller read a lower battery reading than the actual battery value. This resulted in the LOW BATTERY coming up when the battery had not reached the specified low battery trip point yet.

Fix:

The battery sensing software was updated to give a more accurate battery reading. It should be noted that the CHARGE VOLTAGE and the BATTERY VOLTAGE are determined differently. The CHARGE VOLTAGE is the voltage that the controller is trying to reach. The BATTERY VOLTAGE is the actual estimated battery voltage when disconnected from the controller terminals. The voltage measured on the terminals (THE TERMINAL VOLTAGE) will always be somewhere between the CHARGE and BATTERY VOLTAGES. As the battery charges up the difference between the TERMINAL VOLTAGE, BATTERY VOLTAGE and CHARGE VOLTAGE will become smaller.

VERSION 121

Time Manager

New Feature:

Two new functions were added that can be activated by Time Manager:

Pulse Open Gate will send a trigger to open the gate at the time set in time manager. If the gate is already open it will remain open.

Pulse Close Gate will send a trigger to close the gate at the time set in time manager. If the gate is already closed it will remain closed.

Issue:

On startup the controller first loaded settings into memory before activating the display. Making the controller appear non responsive for the first few seconds.

Fix:

The display and joystick is now initiated first so that it is visible that the controller has started up while it loads settings in the background.

VERSION 119

Setup Wizard

New Feature:

During commissioning of a gate, the controller will now automatically select an appropriate opening and closing force for the gate. Users can still adjust the force sens setting after commissioning.

The controller will now also automatically adjust the ramp down distance during commissioning. Users may change the ramp down distance after commissioning.

Issue:

When commissioning a gate close to the 300kg limit the controller might sometimes not succeed in completing the commissioning process due to the ramp-up / ramp-down and force default settings.

Fix:

The default ramp settings were adjusted to allow proper commissioning. The auto force adjustment feature was added during commissioning.

VERSION 118

Multi-user / Condominium Mode

Issue:

After multiple collisions the controller will cancel auto close to prevent further obstructions onto a stationary object. Since the controller is in multi-user mode, a remote cannot be used to close the gate.

Fix:

A remote can now be used to close the gate in multi-user mode but only if auto close has been cancelled due to multiple collisions.

VERSION 117 - Original Release (14 January 2019)