



Lock the charging cable to LS4, GTB+, and GLB+

Locking the Charging Cable

Important:

- *Any modifications performed on the controller are done at your own risk. GARO is not responsible for any issues caused by incorrect handling or unauthorized changes.*
- *This must be done by a certified electrician*

To lock a charging cable permanently to the outlet, you will need to access the charger's controller through either the new or legacy web interface. Follow the steps provided for the specific web interface you are using.

Before You Start:

You will need a Laptop and a micro-USB to USB-A cable (important that the cable has possibilities for data transfer and not only charging).

This cable should be plugged in from your laptop to the charge controller. If the charger has two charge controllers make sure you plug into the charge controller on the right-hand side and DO NOT remove any cables between the charge controllers.

Step 1.

Plug in the Micro-USB in the controller's config port.

GLB+ only has one controller (see picture below)



Twin+ & LS4 has 2 controllers (see picture below)



Step 2.

Once plugged into the controller open a web browser and navigate to one of the following IP addresses:

- **New Interface** (white background) - refer to page 3
192.168.123.123
- **Legacy Interface** (red background) - refer to page 4
192.168.123.123/legacy/operator/operator

Note, if you can't access the legacy interface with above IP address please try:

GLB+

192.168.123.123/operator/operator

TWIN+, LS4:

192.168.123.123:81/operator/operator

Outlet 1

192.168.123.123:82/operator/operator

Outlet 2

Login Credentials for both the New and the Legacy Interface:

- Username: operator
- Password: cherry_zone or yellow_zone

Locking the Charging Cable via the New Interface

Access the New Interface via IP address: 192.168.123.123

Step 1.

Navigate to "Installation" -> "General Installation" tab (wait for the page to fully load)



Locate the options:

"Permanently locked cable" and

"Permanently locked cable (Connector 2)" (the latter is available only for LS4 and GTB+).

INSTALLATION

General Installation

Charging Station with single feed		On
Charging Station Installation Current Limit [A]		32
Phases connected to the ChargePoint		Three-phase system
Phases connected to the ChargePoint (Connector 2)		Three-phase system
Phase rotation of the ChargePoint		RST (L1/L2/L3, Standard Reference Phasing)
Phase rotation of the ChargePoint (Connector 2)		RST (L1/L2/L3, Standard Reference Phasing)
Randomize charging after power loss		Off
Restart transaction after power loss		Off
Permanently locked cable		On
Permanently locked cable (Connector 2)		Off

Step 2.

Plug the Charging Cable into the outlet you want to lock.

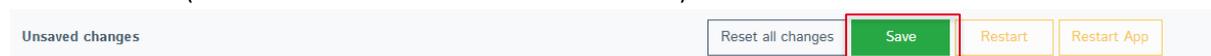
Step 3.

Activate the locking option.

- For outlet 1: Set "Permanently locked cable" to **ON**.
- For outlet 2 (LS4/Twin+ only): Set "Permanently locked cable (Connector 2)" to **ON**.

Step 4.

Click "Save" to save the configuration. Once saved, the charging cable will be permanently locked to the selected outlet. (The bar is visible in the bottom of the screen).



Locking the Charging Cable via the Legacy Interface

Access the Legacy Interface via IP address:

192.168.123.123:81/legacy/operator/operator **Outlet 1**

or 192.168.123.123:82/legacy/operator/operator **Outlet 2**

Note, if you can't access the legacy interface with above IP address please try:

GLB+ 192.168.123.123/operator/operator

TWIN+, LS4:

192.168.123.123:81/operator/operator **Outlet 1**

or 192.168.123.123:82/operator/operator **Outlet 2**

Step 1.

Navigate to the following IP addresses:

- **For outlet 1:** 192.168.123.123:81/legacy/operator/operator



- **For outlet 2 (LS4/GTB+ only):** 192.168.123.123:82/legacy/operator/operator



Step 2.

Go to the “Operator” tab and scroll down until you see “Permanently locked cable”. Alternatively, use Ctrl+F and search for “Permanently locked cable”.

The screenshot shows the GARO charging station interface for a Master controller (version 5.32.3-19073). The interface is divided into several sections:

- Navigation Menu (Left):** Includes State, > DLM, Settings, > Default, **Operator** (selected), System, and Documentation.
- Configuration Fields (Right):**
 - OCPP ChargeBoxIdentity (ChargePointID)
 - EVSE Identity
 - Connection Type
 - Access Point Name (APN)
 - APN Username
 - APN Password
 - SIM PIN
- Advanced Settings (Bottom):** A detailed table of settings with their values and descriptions.

State	Voltage monitoring	Off	Enables monitoring of over- and undervoltage on mains. Requires an OCPP meter providing voltage readings.
> DLM	Maximum Voltage	270	Pause or do not allow charging when voltage exceeds this threshold.
Settings	High voltage hysteresis threshold	265	When recovering from a high voltage error, assure the voltage is below this threshold for more than 60 seconds before resuming charging.
> Default	Low voltage hysteresis threshold	195	When recovering from a low voltage error, assure the voltage is above this threshold for more than 60 seconds before resuming charging.
Operator	Minimum Voltage	185	Pause or do not allow charging when the voltage drops below this threshold.
System	Power source voltage	230	Single phase RMS voltage of the power source feeding the ChargePoint in Volts. This is used for current calculation from power.
Documentation	Phases connected to the ChargePoint	Three-phase system	Configures the number of phases connected to the ChargePoint.
	Phase rotation of the ChargePoint	RST (L1/L2/L3, Standard Reference Phasing)	Phase rotation of the ChargePoint with respect to the grid connection.
	Frequency monitoring	Off	Enables monitoring of over- and underfrequency on mains. Requires an OCPP meter providing frequency readings.
	15118 EV detection timeout [sec]	7	This time indicates how long the EVSE should signal 5Hz to wait for EV SLLAC requests. When this timeout expires, it is assumed that the EVSE is not ready for charging and no further requests will be accepted. This parameter is relevant only if 15118 or Auto is selected.
	Randomize charging after power loss	Off	If this feature is enabled, the restart of charging will be randomized after a power loss. In case of many chargepoints coming online after a power loss, this feature avoids a high peak of energy consumption in short period of time, which can result in another blackout.
	Language of Display	Multi-Language EN-DE-FR-NL	The language of display texts on the LCD display, if available. Only has an effect if a LCD is configured.
	Time zone	UTC	Time zone for local time.
	Local time for housekeeping reboot	0	The local time of day used for house keeping reboots. The charge controller reboots after 30 days to ensure uninterrupted operation with no vehicle connected and no customer present. Select a full hour in the range 0 to 23.
	Number of days for housekeeping reboot	30	Number of days that is used for house keeping reboots. The charge controller reboots after the number of days to ensure operation with no vehicle connected and no customer present. Select a number in range 1..99.
	Vehicle connection timeout [s]	45	Interval (from successful authorization) until inoperative charging session is automatically canceled due to failure of the EV user (charging cable connector) into the appropriate connector(s).
	Lock Actuator only if authorized	Off	If 'On' is selected the socket type 2 actuator is locked only after successful authorization, otherwise already on plug-in.
	Permanently locked cable	Off	If 'On' is selected the type 2 socket locking mechanism must be locked permanently once a charging cable is inserted.
	Actuator Lock-Unlock Cycle	Off	Actuator Lock-Unlock Cycle: If set to On, the lock and unlock of the actuator is performed at night and when no car is charging for more than a week. If set to Off, the lock/unlock cycle is done immediately, and then the option is disabled.

Step 3.

Plug the charging cable into the outlet you want to lock.

Step 4.

Activate the locking option by setting “Permanently locked cable” to **ON**.

Permanently locked cable On

Step 5.

Click “Save” to save the configuration. Once saved, the charging cable will be permanently locked to the selected outlet. (the bar is visible in the bottom of the screen).

The screenshot shows the bottom of the interface with a red bar containing the following buttons: Save, Save & Restart, and Operator Default & Restart. The "Save" button is highlighted with a red border.



Important:

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For further information, please contact:

Support E-mobility (EV charging, GARO Connect, G-Cloud)

Contact: [Click here!](#)