

Wallbox eNext

Instruction Manual



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Wallbox eNext Instruction Manual



Here's your guide to use and configure eNext.

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This manual provides information about the usability and configuration of the Wallbox eNext, which has been designed and tested to allow electric vehicle charging, specified in IEC 61851.

It contains all the necessary information for safe use and help to get the best performance from it with step-by-step configuration instructions.

THE FOLLOWING SYMBOLS ARE USED FOR IMPORTANT SAFETY INFORMATION IN THIS DOCUMENT



ATTENTION!

Indicates that the damage to property can occur if appropiate precautions are not taken.

- Complies with IEC 61851, Electric vehicle conductive charging system (IES 61851-1 and IEC 61851-22)
- Complies with IEC 62196, Plugs, socket-outlets, vehicle couplers and vehicle inlets (IEC 62196-1 and IEC 62196-2).
- Standards: 2014/35/UE, LVD;2014/30/UE, EMC.
- RFID complies with ISO 14443A/B



So, hello!

IMPORTANT SAFETY INFORMATION



Read carefully all the instructions before manipulating the unit.

The Charge Point may not include elements of electrical protection.

- Read all the instructions before using and configurating this product.
- Do not use this unit for anything other than electric vehicle charging.
- Do not modify this unit. If modified, CIRCONTROL will reject all responsibility and the warranty will be void.
- Comply strictly with electrical safety regulations according to your country.
- Do not make repairs or manipulations with the unit energised.

- Only trained and qualified personnel should have access to electrical parts inside the device.
- Check the installation annually by a qualified technician.
- Remove from service any item that has a fault that could be dangerous for users (broken plugs, caps that don't close...).
- Use only Circontrol supplied spare parts.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.



1 — LED beacon

3 — Plugs*

5 - Closing box holes

2 – Cable glands

4 — Wall support holes

(*) Plugs may vary depending on the model



Features

MAIN FEATURES OF THE UNIT

Charge Point may not include elements of electrical protection.

- ABS plastic housing: Robust Plastic material to resist severe environmental conditions included UV rays and mechanical stress
- **Connector Lock:** Type 2 connector has a lock system to avoid disconnection of EV meanwhile is charging.
- **Bluetooth:** Bluetooth v4.2 + BLE wireless communications for remote charge activation and charge point configuration
- Mobile App: Easy software interface to set up the language configuration, user authentification, Wallbox diagnosis and firmware upgrades, among others.
- LED Light beacon: Three colour led indicates the status of the connectors. Blue dynamic light to indicate charging and blue static light for charge complete



1. Download the app 'HiCharger',



- **2.** Enable the bluetooth of your smartphone.
- **3.** Open the mobile app 'HiCharger'.





Compatible with Android version 4.4.2 or later and IOS version 9 or later



First steps

4. Tap the "Add" button in order to pair a new Charge Point.



5. Select the mode.



- **QRSCAN:** This option allows to perform the **pairing automatically**, by only scanning the **QR code**. For further inormation please refer to section A of this chapter.
- **MANUAL:** This option allows to perform the pairing by choosing the charge point from a list and entering its password. For further inormation please refer to section B of this chapter.



Scan the QR code provided.

There are two identification labels containing the same unique QR code for each charge point. One of them is attached to the installation manual and the other one is patched inside the charge point as shown:







801F12B2XXXX;2;1234 MAC: 80:1F:12:B2:XX:XX PASSWORD: XXXX Select the charge point and introduce the password.

The MAC to identify the charge point and the password can be found on the two identification labels as shown in the next picture. One of them is attached to the installation manual and the other one is patched inside the charge point.





6. The name of the charger point can be customized.

eNext	eNext	Input a	name	
		eNext		

7. Once the charge point is paired, **its conectivity status is visible** on the 'List' screen. From now on, the **charge point can be managed** following the instructions of this manual.



The unit has a LED beacon. When it is green, it means that the unit is available and ready to start a charge transaction (A status, according to IEC 61851).





To start a new charge transaction, simply plug the cable.





When the charge transaction starts, the LED beacon turns blue. After a few seconds, the LED beacon makes a fade-in/ fade-out effect (status C, according to IEC 61851).





When the EV is fully charged, the LED beacon shows a fix blue (B status, according to IEC 61851).





How to use it



Simply unplug the cable from the EV.



Once the cable is disconnected from the EV, the LED status bar turns back to green (A status, according to IEC 61851).



In this status, the unit is available to start a new charging transaction, whenever it is required.



The charge point allows to check its status through the app 'HiCharger' at the 'Dashboard' screen.





	Hi Charger	C
eNext 1		* ≡
	Add	
List	D ashboard	Settings

List is a screen used to has an overviwe of all the charge point. Is allow to do:

• Add new charge point to manage.



- See the charger points which smartpohne is actually or usually connected and their status connection.
- Select the charge point to manage or start/stop the vehicle charge.
- Delete different charge points of the list to not connect directly by the bluetooth when they are paired with them.

 \equiv

To remove the charge point of the list or change its name, swipe the charge point's name to the left.

Swipe to the right to close this menu.





List



	li Charger		G
No elements a show available	attached. Press '/ e	Add' button to	
	Add		
_	•		
List	Dashboard	Settings	

Possible status:

*

℅

∦

Green Bluetooth symbol notifies the smartphone is matched with the charger point.

Blue Bluetooth symbol notifies the charge point is ready to pair with the smartphone.

Red Bluetooth symbol notifies the charge point is not available.

C The refresh button at the corner of the screen is used ot refresh the status of the charge points at the list.





Dashboard





AVAILABLE: The charge point is available to connect the vehicle and charge it.

CHARGING: The charge point is charging a vehicle. The screen shows the current time elapsed of the recharge.

COMPLETED: The charge point finishes the charge sesion beacuse the vehicle don't need more energy at this moment. The screen shows the time elapsed of charge.



THERMAL CONDITION OUT OF RAGE: The charge point can not charge vehicles because the temperature inside the charge is so high or so low to charge a vehicle.



ERROR: The charge point has an internal error, is not possible to charge any vehicle. For further information please refer to the errors chapter.



DISABLED: The charge point is disabled by the user. For further information please refer to the chapter below.



Charger Status	(
eNext 1	
Available	
Time elapsed H M S	
	6
	C
=	
List Dashboard Settin	

Play: The charge point starts the charge.

Stop: If the charge point is charging it stops the season charge The charge point starts the charge .

Charger adjustmens: It opens the charge point information and its adjustment options.

Disable charger: It leaves the charge point disabled. Once the charge point is disabled, the same button enable it



D Charge point configuration



Connection setup: Charge point menu to adjust the comunication connections.

Current: Charge point menu to adjust the maximum current supplied to the vehicle.

Firmware: Charge point firmware information.

For further information, please refer to the following chapter, charge point configuration.





Bluetooth: Bluetooth device communications enabled/enabled.*

Presence recognition: Bluetooth proximity identification enabled/enabled. For further information refer to chapter 5 Presence recognition.

(*)The communication connexion mode disabled not allow to connect to the charge point. You should do a electrical reboot of the charge point to reset this parameter.



Before first use of the charge point it is mandatory to take in consideration the maximum current of the power supply. This value has to be set at charge point by the HiCharger app.

÷	Supply current
Supply current	
0	33 A 35.5
	$\langle \gamma m \rangle$



Charge Point Settings



The charge point firmware can be upgraded through HiCharger app.

The 'HiCharger' app detects the charge point firmware version and checks, through the internet, if any new firmware version is available. Firmware
Click on the button below, to check current firmware version.
Check

Given the case a new firmware version is available, the app allows to install this version into the charge point.

← Firmware
Click on the button below, to check current firmware version.
Check
There is a new version available to dowload. Click on the next button to start the process.
Available version: 06.01
File size: 61820
Install
An update is found.





About: Information of the Circontrol company and the HiCharger' app.

FAQ: Frequently asked questions.

General: Settings Menu of the 'HiCharger' app.



HiCharger Settings





App Version: Current 'HiCharger' app version.

Compilation date: Release date of the current firmware version.

Use Terms: They are the rules by which one must agree to abide in order to use the 'HiCharger' app.



		Settings	
0	Direct conr	nection	
	Language		>
	ist	D ashboard	Settings

Direct connection: It allows to the smartphone the option of direct pairing to any charger that are available in the 'List' menu.

Language: Different languages are available.







Number of blinks	Error	Description	Solution
1	D Status	Signal D (vehicle ventilation) in the pilot	The car leaves this status or disconnects
2	E Status	Signal E (short circuit with earth) in the pilot	pilot signal is recovered or the vehicle is disconnected
3	Cord Error	Proximity signal is lower than the standard	Proximity signal is recovered or the vehicle is disconnected
4	Negative PWM	Pilot negative signal is not detected	Pilot voltage is recovered or the vehicle is disconnected
6	Lock error	Lock or unlock command is not able to realiced	Disconnect the car
8	Welded contact	Relays are shortcircuited	Disconnect the car
9	Low voltage	Voltage not detected at power circuit	
10	6mDC triggered	6mA current leakeage at the circuit	Disconnect the car
13	Meter error	No communication with energy meter	Check the power supply and communication wiring of the energy meter



Error codes





Number of blinks	Error	Description	Solution
1	Low temperature	The charge point is below the working temperature	The car leaves this status or disconnects
2	High temperature	The charge point is above the working temperature	pilot signal is recovered or the vehicle is disconnected
13	Meter error	No communication with energy meter	Check the power supply and communication wiring of the energy meter



GENERAL DATA				
Light beacon	Frontal LED bar			
Wireless communication	Bluetooth v4.2 + BLE			
Connectors (optional)	Shutter Type 2 Socket			
	Cable Type 1			
	Cable Type 2			

MECHANICAL DATA				
Enclosure rating	IP54 / IK10			
Enclosure material	ABS / PC			
Enclosure closure system	Anti-vandalism Allen screws			
Net weight	4 kg			
Dimensions (W x H x D)	315 x 335 x 200 mm			

ENVIRONMENTAL CONDITIONS				
Operating temperature	-5°C to +45°C			
Operating temperature with Low Temperature Kit (optional)	-30°C to +45°C			
Storage temperature	-20°C to +60°C			
Operating humidity	5% to 95% Non-condensing			



Technical Data

ELECTRICAL DATA			
Power supply	1P+N+PE / 3P+N+PE		
Input voltage	230VAC+/-10% / 400VAC+/-10%		
Frequency	50Hz / 60Hz		
Protections (optional)	MCB (curve C) - includes shunt trip		
	Leakage detector (MCB/RCB0 with shunt trip is required to open the circuit)		
	RCB0: RCD Type A (S) + MCB (S) - includes shunt trip		
Overvoltage protection (optional)	Transient surge protector IEC 61643-1 (Class I)		



MODEL*	CONNECTORS*	OUTPUT CURRENT	OUTPUT POWER	MINIMUM CABLE CROSS- -SECTION**
S	Type 2 Cable	32A	7,4kW	10mm ²
т	Type 2 Socket	32A	22kW	10mm ²

(*) Please consult the availability to your local supplier

(**) Minimun cable section recommended for the maximum AC input current, the final section must be calculated by a qualified technician taking into account the specific conditions of the installation.





Need help?

In case of any query or need further information, please contact our **Post-Sales Department**





CIRCONTROL WALLBOX ENEXT INSTRUCTION MANUAL

A comprehensive guide on how to use and configure your Wallbox eNext.

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