



User Manual

Wallbox eHome



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User Manual

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Here's your guide to use and configure eHome

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1

This manual provides commissioning information about Wallbox eHome series, which has been designed and tested to allow electric vehicle charging according to IEC 61851-1:2017

This document has different sections such as step-by-step installation procedure and technical data.

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



ATTENTION!

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

- Complies with IEC 61851, Electric vehicle conductive charging system (IEC 61851-1:2017 and IEC 61851-21-2:2018).
- Complies with IEC 62196, Plugs, socket-outlets, vehicle couplers and vehicle inlets (IEC 62196-1 and IEC 62196-2).
- Directives: 2014/35/UE, LVD;2014/30/UE, EMC.

So, hello!

IMPORTANT SAFETY INSTRUCTIONS



Read carefully all the instructions before starting in order to ensure properly installation of the Charge Point.

The Charge Point is designed for installation in indoor and outdoor areas. For each of the different conditions of installation, the unit shall be installed safely and assuring the adequate protections.

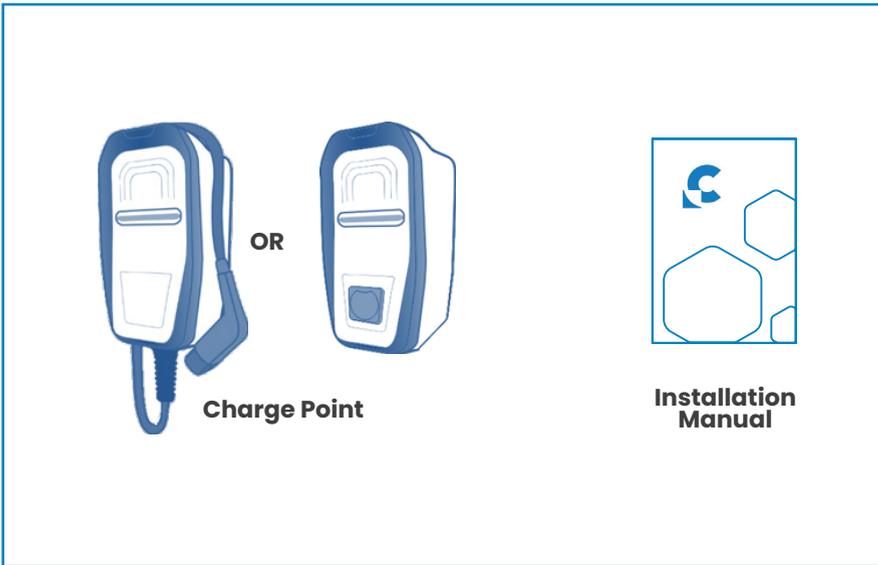
- Charge Point must not be installed in areas where potential risk of explosions are.
- Do not install the Charge Point where falling objects may damage the equipment.
- The Charge Point can be installed in locations with non-restricted access.
- The surface where the Charge Point is placed must withstand the mechanical forces.
- This unit shall not be used for any other purpose than electric vehicle charging modes as specified in IEC 61851.
- Do not modify this unit. If modified, Circontrol will reject all responsibility and the warranty will be void.
- The Charge point does not support the ventilation optional function described in IEC 61851-1:2017 (clause 6.3.2.2).
- Do not use any adapter, except those approved by the EV manufacturer. Adapter only allowed to eHome Link models with socket-outlet.
- Do not perform any repair or manipulation of the unit while it is energized.
- Only trained and qualified personnel should be able to access to low-voltage electrical parts inside the unit.
- Check the installation annually by qualified technician.
- Remove from service any item which have 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.

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SHORT DESCRIPTION

The Wallbox eHOME charging system is specially designed to be easily installed both in outdoor and indoor private car parks, in order to charge all the EV brands of the market in MODE 3 (according to European standard IEC 61851-1), by just connecting either its tethered cable with a type 1 or type 2 connector or connecting the EV cable into the charger socket type 2.

What's included:



Overview



1 – Circontrol Logo

2 – Status LED bar

3 – Front cover

4 – Cable + connector

5 – Frame

6 – Socket-outlet*

7 – Protections and Meter Door

(*) Socket-outlet may vary depending on the model



Operating Instructions

3.1 Charging procedure

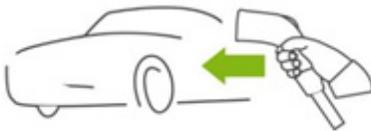
1 – GREEN FIX BAR STATUS

The eHome has a status LED beacon. When it is in green color, it means that the unit is available and ready to start the charge.



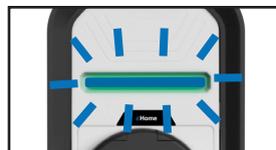
2 – PLUG

To start a new charge process, plug the connector into your car and in the Charge Point.



3 – BLUE DYNAMIC BLINKING LED STATUS

When the status LED light bar turns into blue, it means that the eHome starts the charging process. While charging the EV, the LED light bar will be flashing continuously.



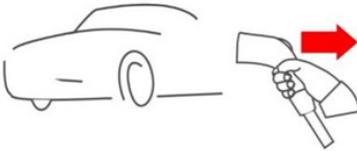
4 – BLUE FIX LED STATUS

When the EV is fully charged, the charging process ends up and the status LED light bar stops flashing and remains fix in blue.



5 – UNPLUG

At this moment you can unplug the vehicle connector and of the Charge Point if it is necessary.



6 – GREEN FIX LED STATUS

Once the cable is disconnected, the LED light status bar turns back into green. In this status, the Charge Point is available to start a new charging process, whenever it is required.



3.2 Status LED light errors

The eHome is capable to detect the following operating errors:

- Ventilation required Error
- Control Pilot Error
- Proximity Error
- Negative PWM voltage Error
- Maximum output current Error
- Temperature Error

Whatever the error case is, the Charge Point will stop charging and technical assistance will be required, except from the temperature error. In this last case, the Charge Point starts charging when the operating temperature is reached again.

In the following sections it will be explained how the eHome indicates the above mentioned errors and the actions taken by the Charge Point.

1 – VENTILATION REQUIRED ERROR

In some old EVs, this stat means that there are some gases coming out from the batteries. So, an external ventilation in the car park might be required. If it were the case, the status LED light would turn into red and keep blinking permanently.

1 Blink Sequence



2 – CONTROL PILOT ERROR

When the Charge Point is connected to the EV, a Pilot short-circuit to earth may occur. Then, the status LED light bar turns into red and flashes in a sequence of two blinks.

2 Blink Sequence



3 – PROXIMITY ERROR

When the Charge Point is connected to the EV, a Proximity short-circuit to earth may occur. Then, the status LED light bar turns into red and flashes in a sequence of three blinks.

3 Blink Sequence



4 – NEGATIVE PWM VOLTAGE ERROR

When the Charge Point is connected to the EV, the PWM signal, used to communicate the Charge Point with the EV, can be negative. Then, the status LED light bar turns into red and flashes in a sequence of four blinks

4 Blink Sequence



5 – MAXIMUM OUTPUT CURRENT ERROR

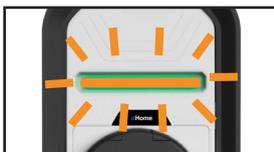
If this on-board current limit selection is not set up according to the hardware features, the Charge Point detects it and shows this error. In this case, the status LED light bar turns into red and flashes in a sequence of five blinks..

5 Blink Sequence



6 – TEMPERATURE ERROR

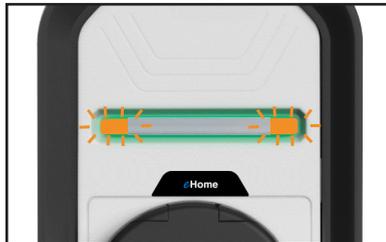
When the Charge Point temperature is below a certain value, it is detected by the Charge Point. In this situation, the status LED light bar turns into orange blinking. In the meantime, if the Charge Point is supplied with heater (optional), it starts heating the inside components until the operating temperature is reached. Then the Charge Point starts charging again.



3.3 Firmware Version

1 — FIRMWARE VERSION

When the unit is booting, the LED bar will show the firmware version in orange. The first digit of the version will be shown as a certain number of blinking of the first LED, as many times as the digit indicates, and the second digit will be displayed by the last LED blinking accordingly to what the second digit indicates (i.e. for version 1.6, you will see one blink at the first LED and six at the last LED).





Need help?

In case of any query or if further information is required, please contact our **Post-Sales Department**.



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**CIRCONTROL
WALLBOX eHOME
USER MANUAL**

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

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