EVB200EB-B4BC

EN Installation Instructions
User Guide

RAK139_EN
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Contents

Installation Instructions

User Guide

Installation Instructions

1. Safety instructions

Electrically skilled person

- **The installation must only be done by a qualified professional.**
- **Read these instructions carefully before you install, operate or maintenance the charging station.**
- **Obey the instructions in this manual and make sure that the installation complies with national safety regulations, installation methods and restrictions.**
- **The information provided in this manual in no way exempts the installer or user from responsibility to obey all applicable safety regulations.**
- **Keep this manual for future reference.**

WARNING

Danger of electric shock! Risk of fire!

- ***Improper installation can cause personal injury and property damage.***
- ***Do not switch on the power supply before the installation work is completed.***

2. Description of symbols

	WARNING - Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury or considerable damage to the equipment.
	Electrically skilled person is a person with relevant education and experience to enable him or her to perceive risks and to avoid hazards that electricity can create.
	Identifier for plug and socket outlet AC / EN62196-2 / Type 2
	Radio-frequency identification reading area for automatical identifying of RFID tags.
	Environmental instructions

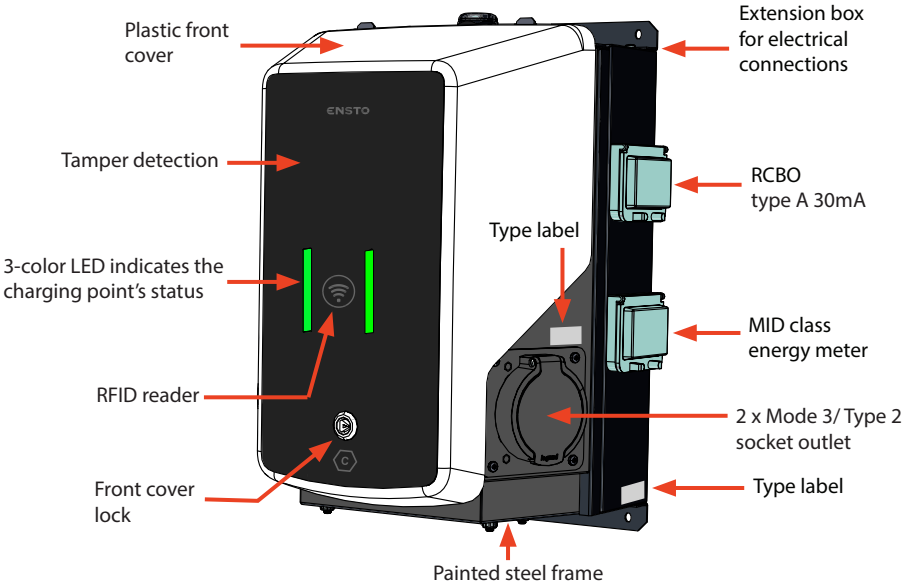
3. Abbreviations

Abbreviation	Description
LED	Light Emitting Diode
MCB	Miniature Circuit Breaker, protects cables and equipment from overload and short circuits
OCPP	Open Charge Point Protocol, protocol how the charger communicates with the backend systems
RCBO	Residual current Circuit Breaker with Overcurrent protection
RCD	Residual Current Device, protects humans and animals from electric shock
RDC-DD	Residual direct current detecting device, protects humans and animals from electric shock
RFID	Radio Frequency Identification, information remote reading/writing system, here used to identify authorized charging point users
USB	Universal Serial Bus, specifications for cables, connectors and protocols
RS-485	Recommended Standard 485, standard defining the characteristics of drivers and receivers for use in serial communications systems

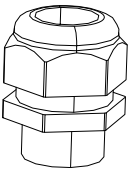
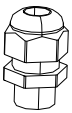
4. Delivery contents

- Charging station
- Extension box
- Mounting accessories
- Label set with RCBO testing instructions
- Triangular key
- Installation Instructions / User Guide in English,
  other languages please see www.legrand.com

4.1. Product features



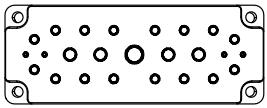
4.2. Mounting accessories

Item	Description and use	Quantity
	Screw 3x8, Tx10 • To lock the covers on the protective devices and the energy meters	4
	RJ45 connector • For Ethernet connections	2
	Cable gland M32 • For chaining power supply to another charging station • Cable Ø 18-25mm	1
	Cable gland M16 • For an additional Ethernet cable • Cable Ø 5-10mm	1
	Cover plug M16 • To replace the pre-installed cable gland M16, if an Ethernet cable is not necessary	1

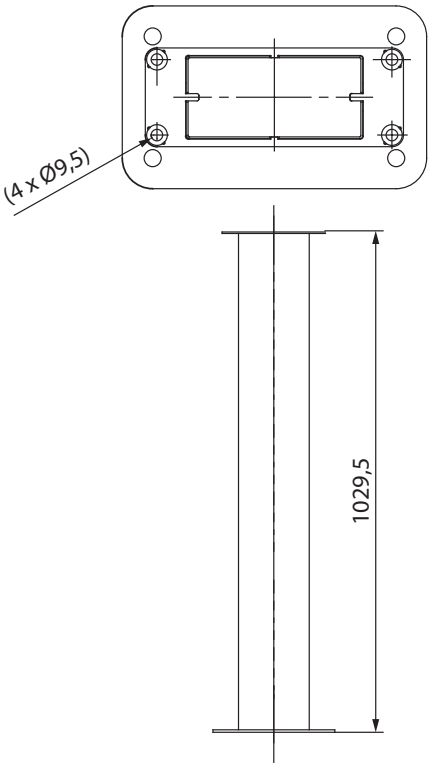
5. Accessories

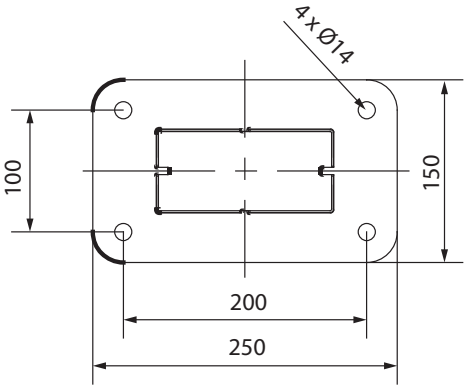
EVTL43.00

Ground / Floor mounting pole



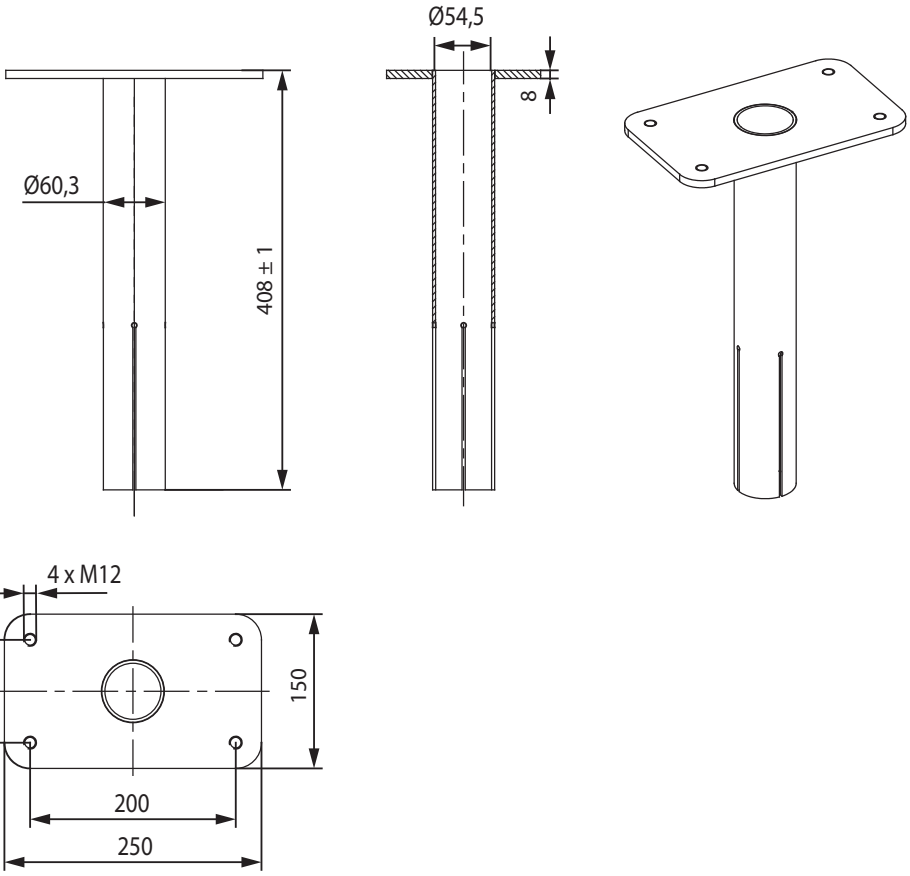
Flange 2202
(not necessary with this product)





EVTL44.00

Adapter for ground mounting



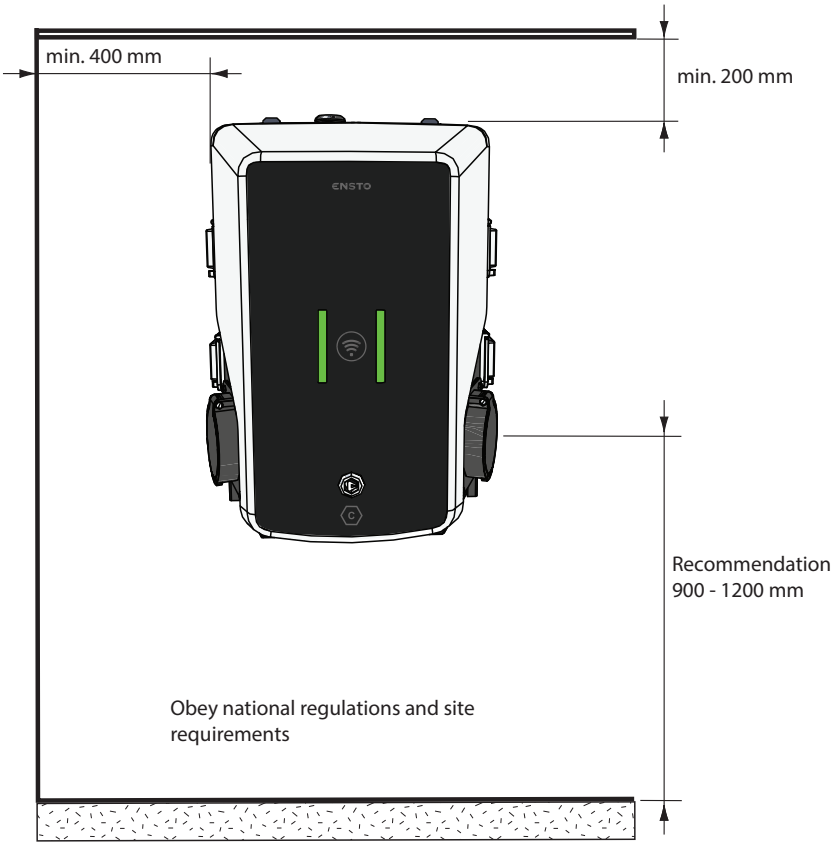
6. Mounting instructions

6.1. Before installation

Remove the charger and the extension box from their package. Do not scratch the surface of the items after removal from the package.

When selecting installation site, take into consideration the following:

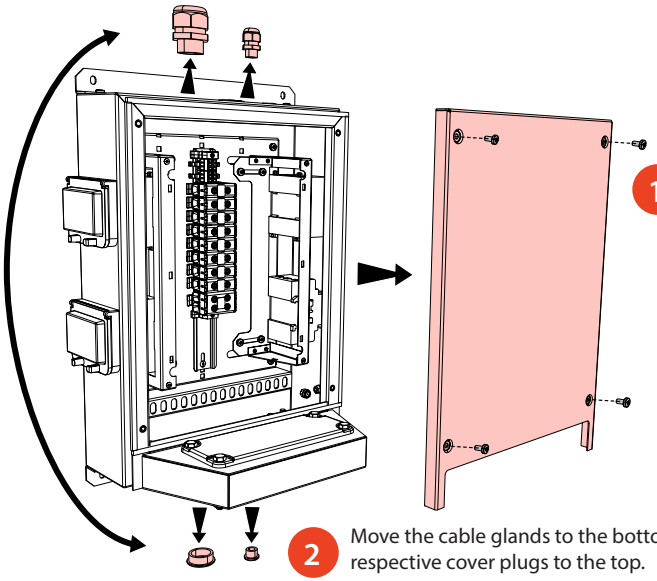
- The minimum space necessary for operating and maintenance.
- The mounting foundation is applicable and robust.
- To ensure the optimal charging performance, the charging station should not be exposed to direct sunlight.
- If the charging station is installed in corrosive conditions where there is a risk of metal rusting, visible metal surfaces must be protected regularly with anti-corrosion agent.



6.2. Cable entries

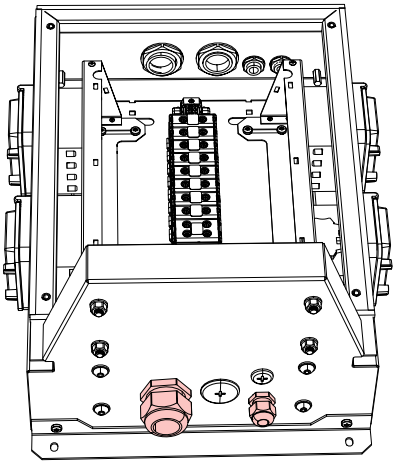
- Take the cable routing into consideration when planning the installation. The supply cable can be routed into the enclosure from the top or bottom. Default cable routing is from the top.
- An M32 cable gland for the supply cable and an M16 for a possible data cable are pre-assembled on the top of the extension box.

When the supply is from the bottom

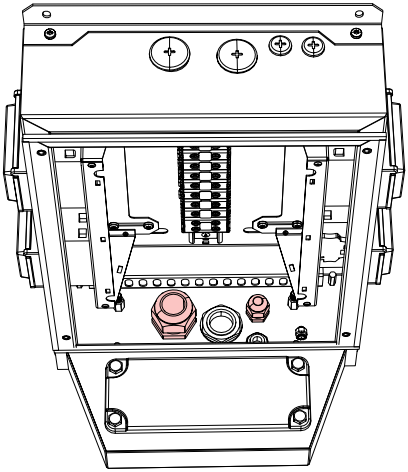


1 Remove the front plate.

2 Move the cable glands to the bottom and respective cover plugs to the top.



3a When you mount the charging station to wall, attach the cable glands to the outside of the extension box.



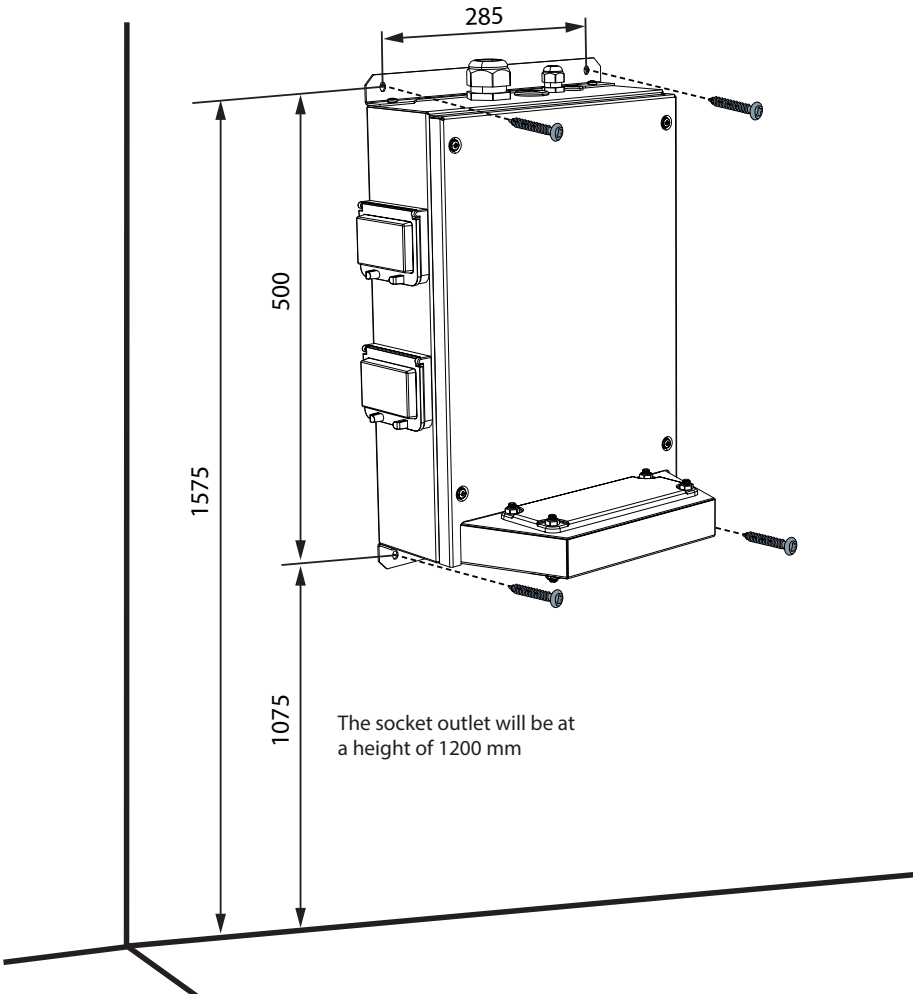
3b When you mount the charging station on a mounting pole, attach the cable glands to the inside of the extension box.

6.3. Wall mounting

Installation accessories	Screws max. Ø 6mm (not included)	4 pcs

Installation steps

1. Drill screw holes for the wall brackets.
2. Select applicable screws for the the wall.
3. Attach the extension box to the wall with 4 fastening screws.
4. See wiring instructions on page 16.

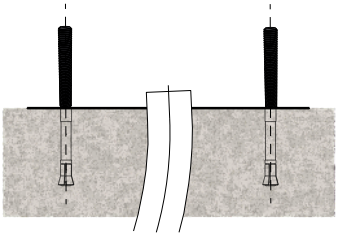


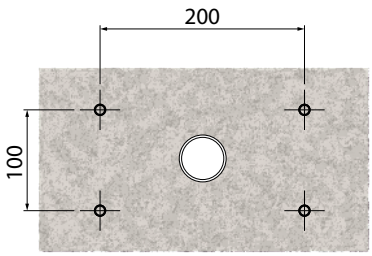
6.4. Ground mounting on concrete casting with ground mounting pole

Installation accessories	Ground mounting pole EVTL43.00	1 pc
	Anchor bolts M12	4 pcs
	Bolts and nuts (not included)	

Make sure that the materials used for the concrete casting and the installation procedures follow local building regulations and safety standards.

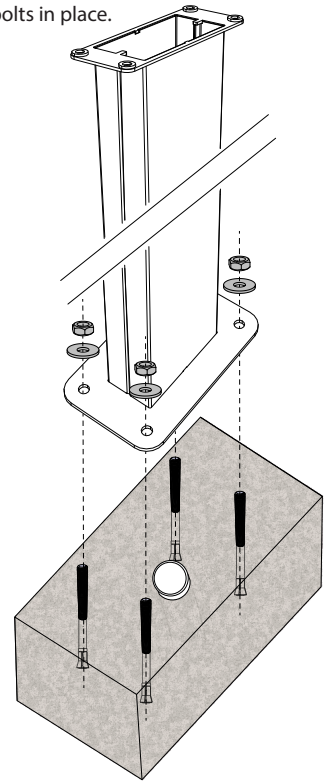
- Dig a trench for cable conduits and an excavation pit for the concrete foundation. The pit floor should be compacted and level.
- Put cable and possible drain pipes in place.
- Fill the pit with concrete.
- Let the concrete cure. Make sure that the surface stays level during the process.





Installation steps

1. ***Make sure that the concrete surface is compacted and level.***
2. Drill a hole in the concrete for the anchor bolts. For more information, please see the anchor bolt instructions.
3. Put the anchor bolts in place.



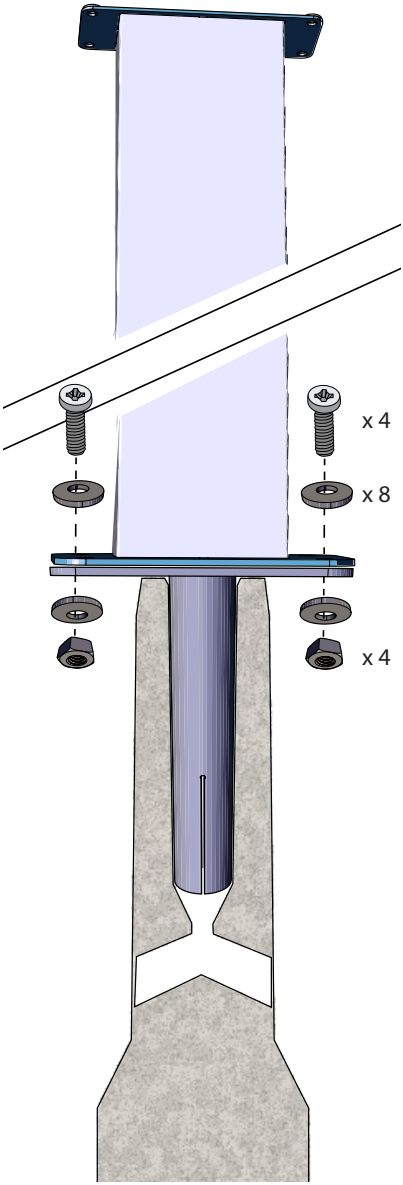
4. Pull the electric cables approx. 1500 mm measured from the concrete surface.
5. Attach the ground mounting pole to the anchor bolts with washers and nuts.
6. Pull the electrical cables through the ground mounting pole.
7. Attach the charging station to the mounting pole. See instructions on page 15.

6.5. Ground mounting on concrete foundation with ground mounting pole

Installation accessories	Ground mounting pole EVTL43.00	1 pc
	Adapter for concrete foundation EVTL44.00	1 pc
	Concrete foundation (from different manufacturers)	1 pc
	Bolts, washers and nuts	

Installation steps

1. Dig a trench for cable conduits and an excavation pit for the concrete foundation to applicable depths.
2. Add gravel to the bottom of the pit, to such thickness that the top of the foundation will be at applicable level when you lift the foundation into the pit. Take into consideration the possible paving materials when you set the level.
3. Lift the concrete foundation into the pit. For more information, please see the concrete foundation mounting instructions.
4. Put cable and possible drain conduits in place.
5. Lift the adapter EVTL44.00 into the concrete foundation. Cut the adapter, if necessary. Adjust the adapter in such a manner, that the top surface of the adapter is horizontal. Make sure, that the adapter is securely in place and does not swing.
6. Pull electric cables through the conduits and the adapter approx. 1500 mm measured from the adapter flange.
7. Tighten the foundation to its place by filling the excess space outside the foundation with gravel.
8. Attach the ground mounting pole on the adapter with bolts, washers and nuts (included).
9. Pull the electrical cables through the ground mounting pole.
10. Attach the charging station to the mounting pole. See instructions on page 15.

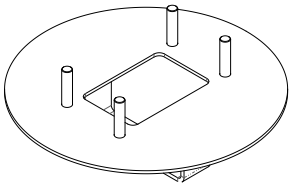


6.6. Ground mounting on Unimi concrete foundation

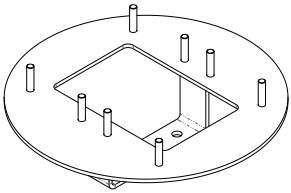
This installation example describes the installation procedure when a concrete foundation supplied by Unimi - Solutions is used.

Installation accessories	Ground mounting pole EVTL43.00	1 pc (1 x EVB) 2 pcs (2 x EVB)

Installation accessories, order from www.unimi.se	Concrete foundation	1 pc
	Cover plate	1 pc
	Adapter for 1 x EVB, product code US7650	1 pc
	Adapter for 2 x EVB, product code US27657	1 pc



US7650

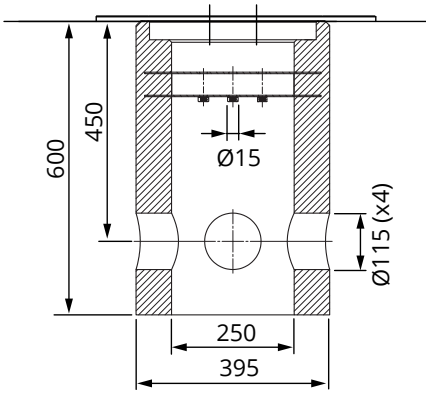


US27657

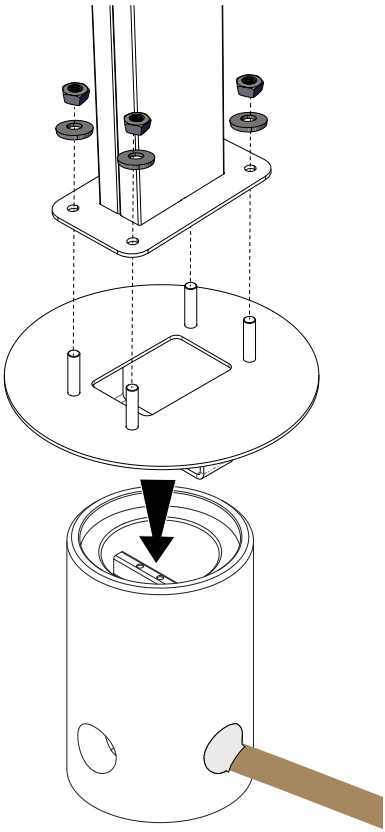
Note! When using the adapter for two charging stations (US27657), you can get up to four charging outlets.

Installation steps

1. Dig a trench for cable conduits and an excavation pit for the concrete foundation to applicable depths. The pit floor should be compacted and level.
2. Adjust the depth of the pit so that the top of the foundation will be flush with the final surrounding ground surface. Take into consideration the possible paving materials.
3. Cover the unused conduit openings with plugs, which are included in the foundation delivery.



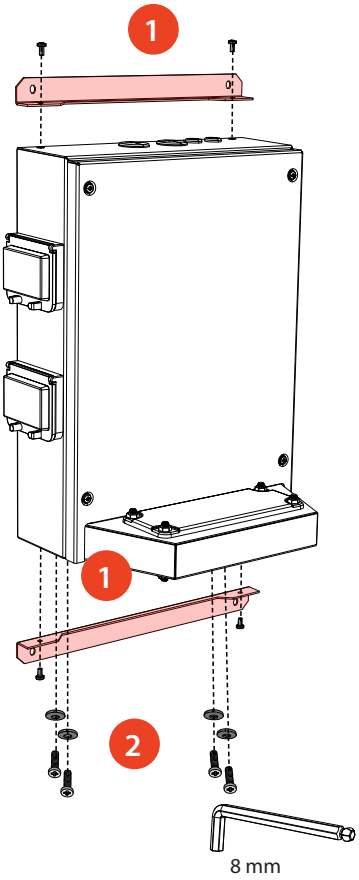
4. Lift the foundation into the installation pit. You can use the attachment bar in the foundation as a lifting point. Make sure that the mounting bar is in a direction that enables the installation of the charging station in correct position.
5. Put cable conduits into the trenches and install the conduits to relevant inlets.
6. Pull electric cables through the conduits into the foundation approx. 1500mm measured from the top of the foundation.
7. Tighten the foundation to its place by filling the excess space outside the foundation with gravel.
8. Set the final layer of gravel so that the top of the foundation will be flush with ground or the final paving material.
9. Always put a cover plate on the foundation, if the charging station is installed in a separate session than the foundation.
10. Remove the cover plate before you start the installation work.
11. Put the adapter element on the foundation.
12. Attach the adapter element to the foundation attachment bar with bolts 3 pcs (included).
13. Put the mounting pole on the adapter. Tighten with the washers and nuts included in the delivery.
14. Pull the electrical cables through the mounting pole.
15. Attach the charging station to the mounting pole. See instructions on page 15.



6.7. Attaching charging station to mounting pole EVTL43.00

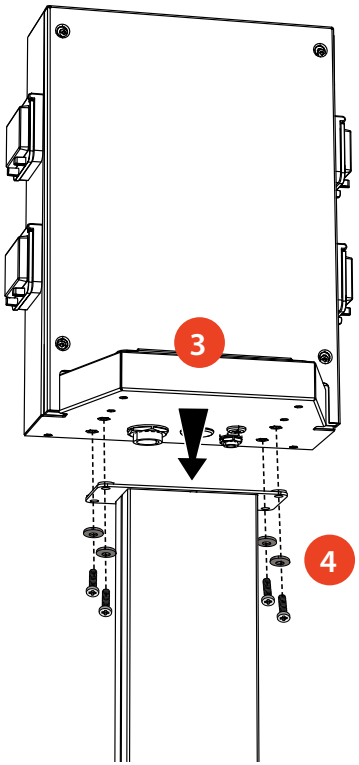
Precondition

- The mounting pole is mounted on site properly.
- The cable glands are moved from top to the bottom of the extension box. See chapter **6.2 Cable entries**.
- The electrical cables are installed and routed to the extension box. See chapter **7.1 Wiring instructions**, steps 1 - 11.



Installation steps

1. Remove the wall brackets 2 pcs from the rear side of the extension box [1]. Both brackets are attached with two screws (This step is not mandatory.)
2. Remove the four M8 screws and washers from the bottom [2].
3. Lift the extension box on the mounting pole [3].
4. Attach the extension box to the mounting pole with the screws and washers you removed in the step 2 [4].

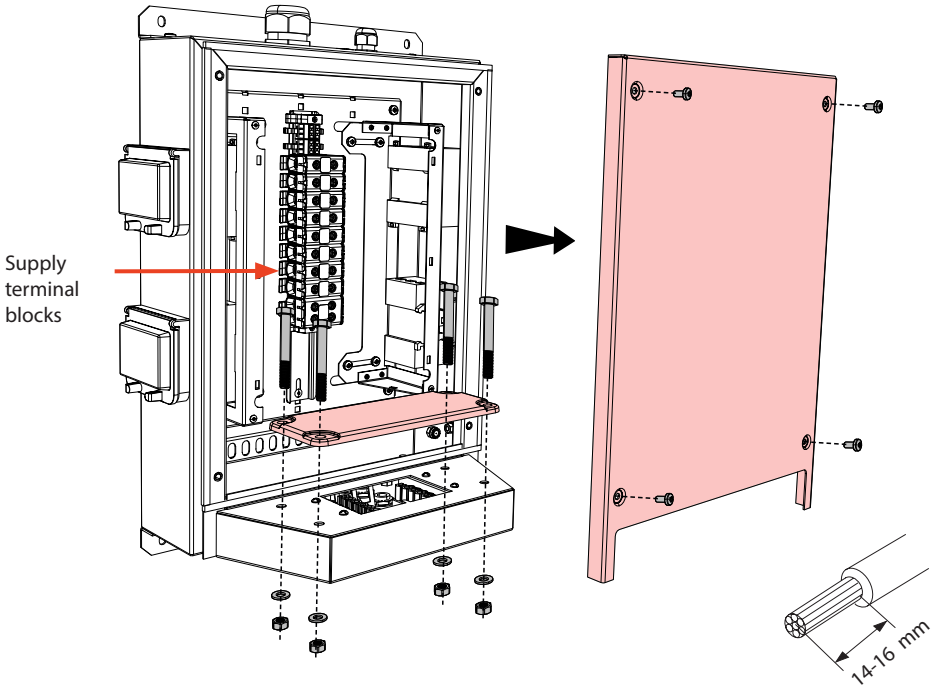


7. Electrical connections

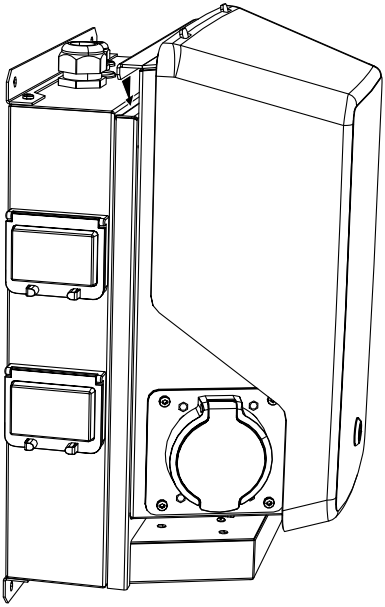
7.1. Wiring instructions

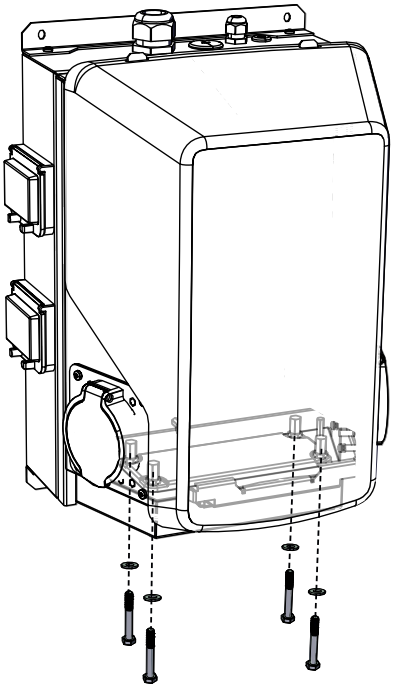
Installation steps

1. Remove the front plate from the extension box.
2. Remove the bolts, nuts and washers from the flange on the extension box. You need the bolts and washers when you attach the charger to the extension box.
3. Remove the flange from the extension box.

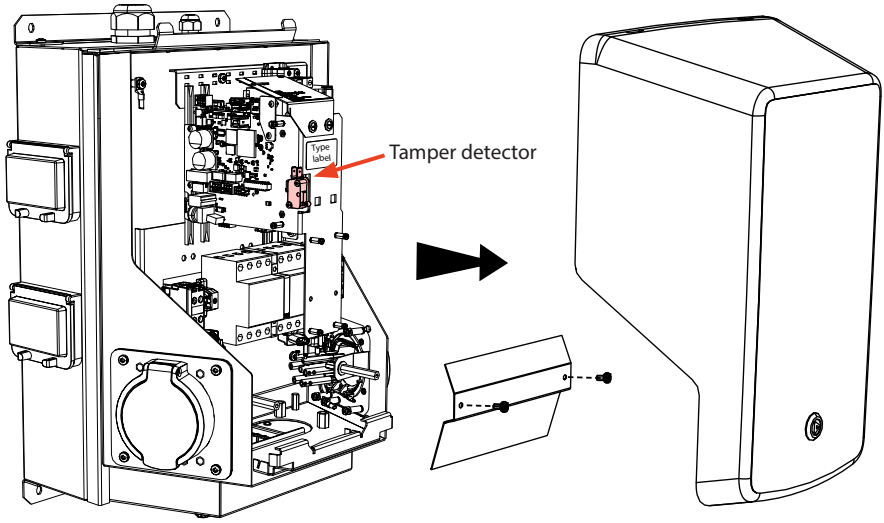


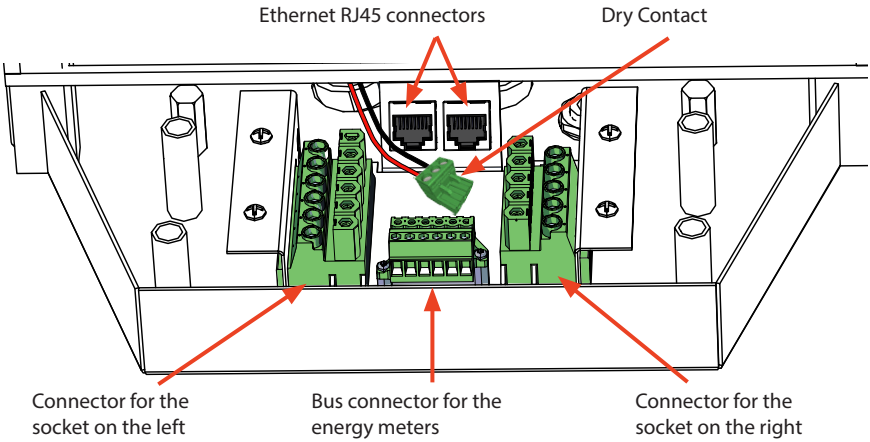
4. Pull the supply cable through the cable gland M32.
5. Remove the cable sheath approx. 200 mm.
6. Cut the supply cable conductors to applicable lengths. The earth conductor must be long enough, so that if a fault occurs it is the last one that comes loose.
7. Strip the conductors 14 - 16 mm and connect to the supply terminal blocks.
8. Pull the data cable through the cable gland M16.
9. Connect the data conductors to the Ethernet RJ45 connectors (2 pcs included).
10. Put the Ethernet RJ45 connectors in place.
11. Make sure that there are not any loose connections (connectors or conductors) in the extension box.
12. Attach the front plate to the extension box.



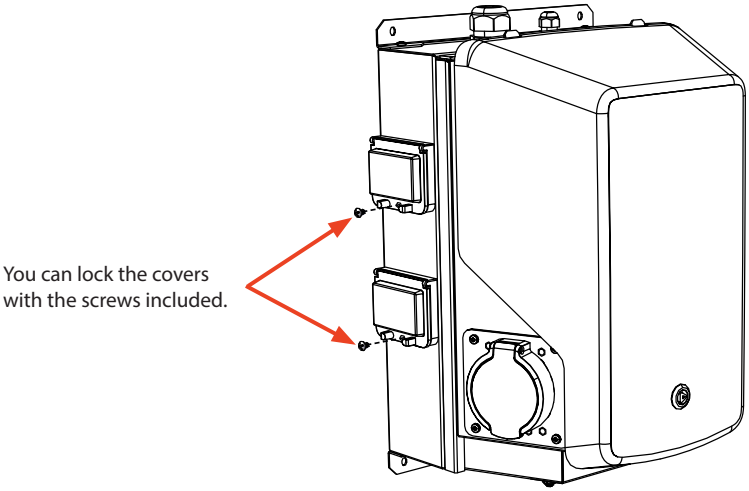


13. Lift the charger on the extension box.
14. Attach the charger to the extension box with the bolts and washers you removed in the step 2.
15. Remove the front cover from the charger.
16. Remove the plastic shield.





17. Connect the plug-in couplers from the charger to the respective couplers in the extension box.
18. Attach the plastic shield in place.
19. Close the front cover.
20. A label set of RCBO testing instructions is included in the delivery. Attach a language specific label on the extension box on a position where it can be seen.

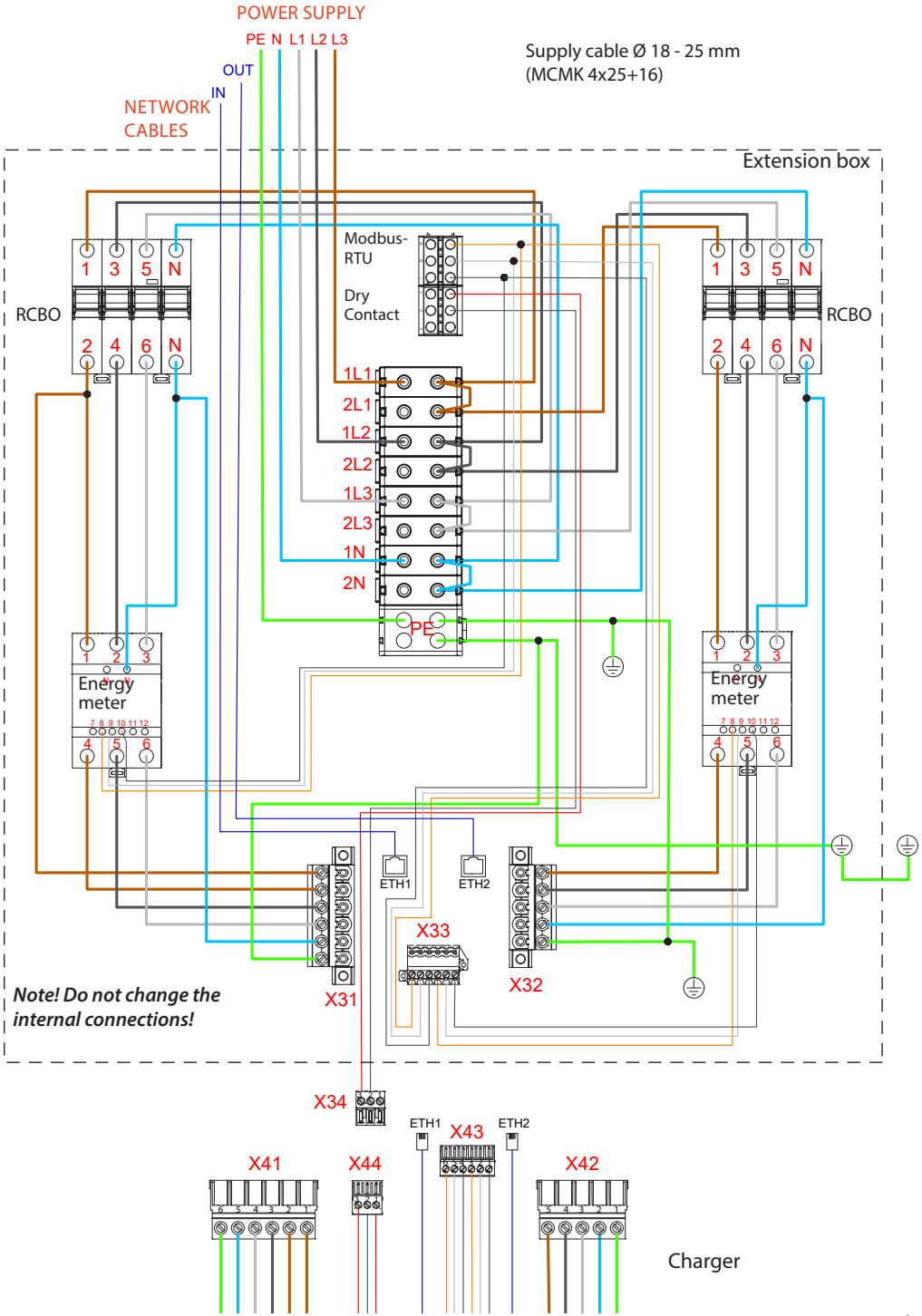


7.2. Power supply

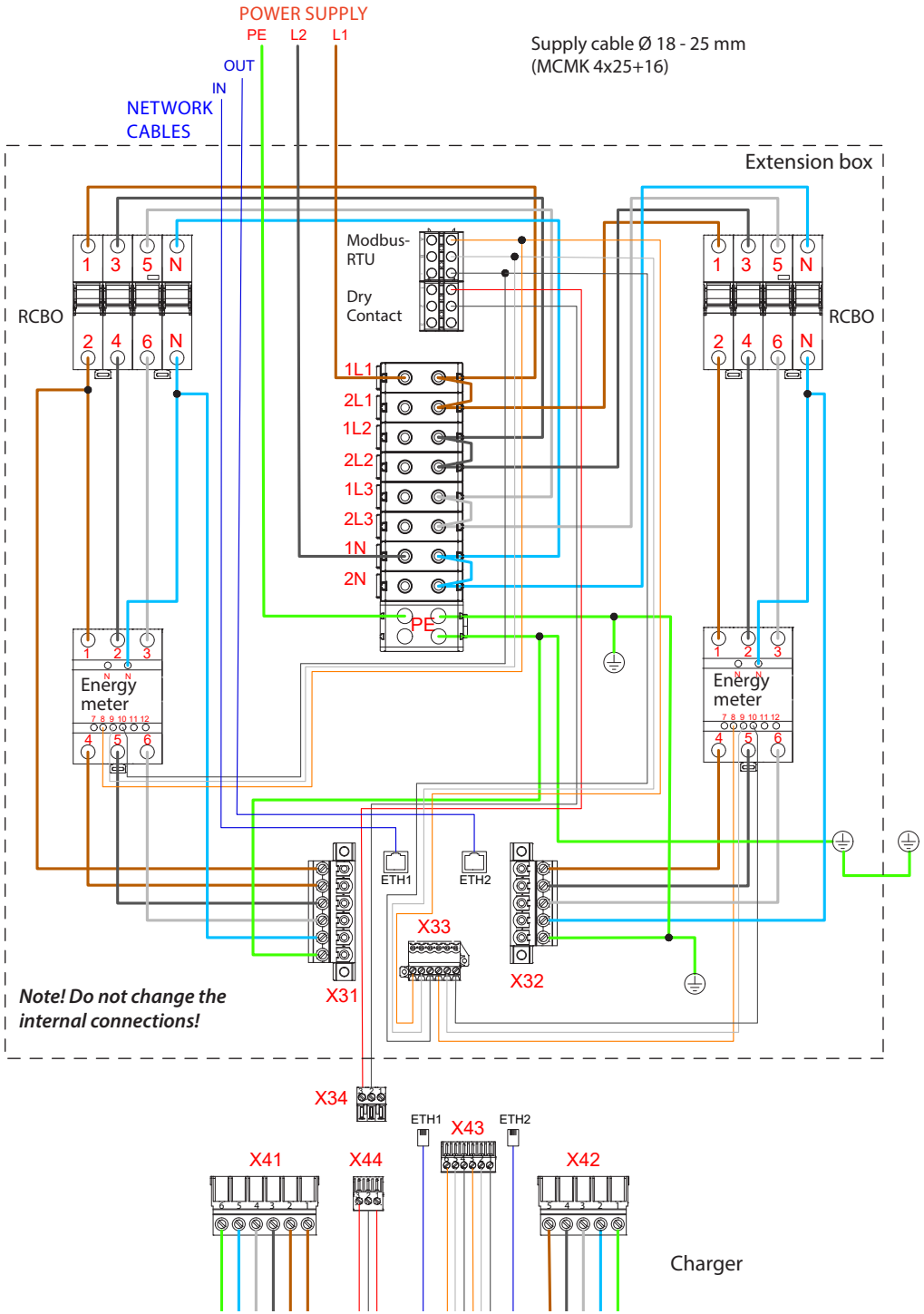
The voltage and current ratings must comply with national regulations. System dimensioning must be done by a qualified electrical designer.

We recommend supply cables with stranded conductors.

TN / TT network



IT network


POWER SUPPLY
PE L2 L1
OUT
IN
NETWORK CABLES
Supply cable Ø 18 - 25 mm
(MCMK 4x25+16)
Extension box
RCBO
1 3 5 N
2 4 6 N
Modbus-RTU
Dry Contact
1L1
2L1
1L2
2L2
1L3
2L3
1N
2N
PE
Energy meter
ETH1
ETH2
X33
X31
X32
Note! Do not change the internal connections!
X34
X41
X44
X43
X42
Charger

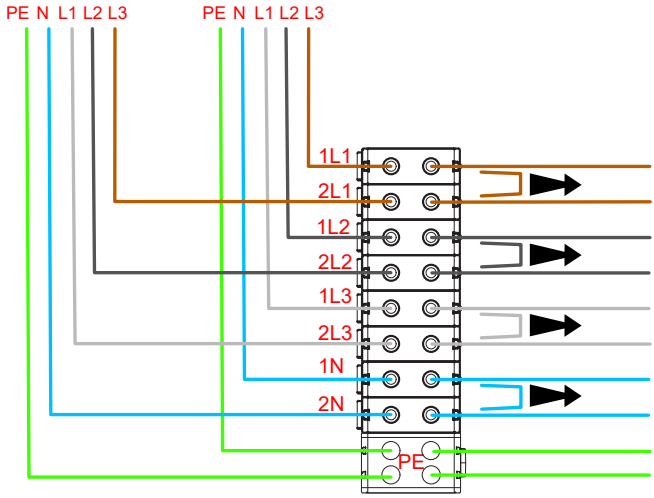
Separate supply cables for each charging point

Install an additional cable gland M32 for the second supply cable.

TN / TT network

Supply 2 Supply 1

Cable gland M32: cable Ø 18 - 25 mm



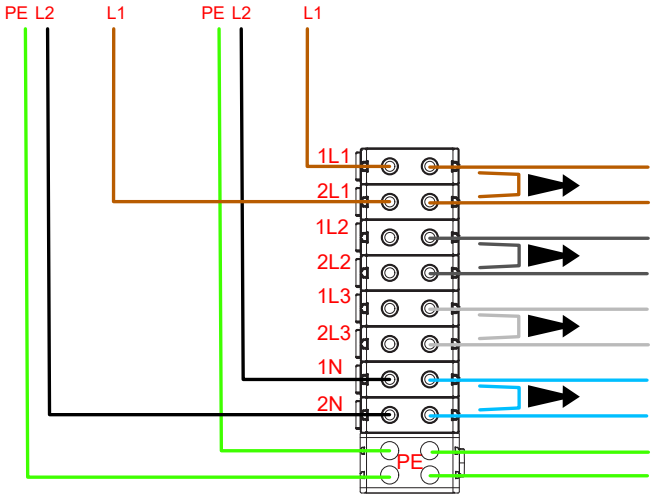
Remove the jumpers from the phase and neutral terminal blocks.

Tightening torque: 6Nm

IT network

Supply 2 Supply 1

Cable gland M32: cable Ø 18 - 25 mm



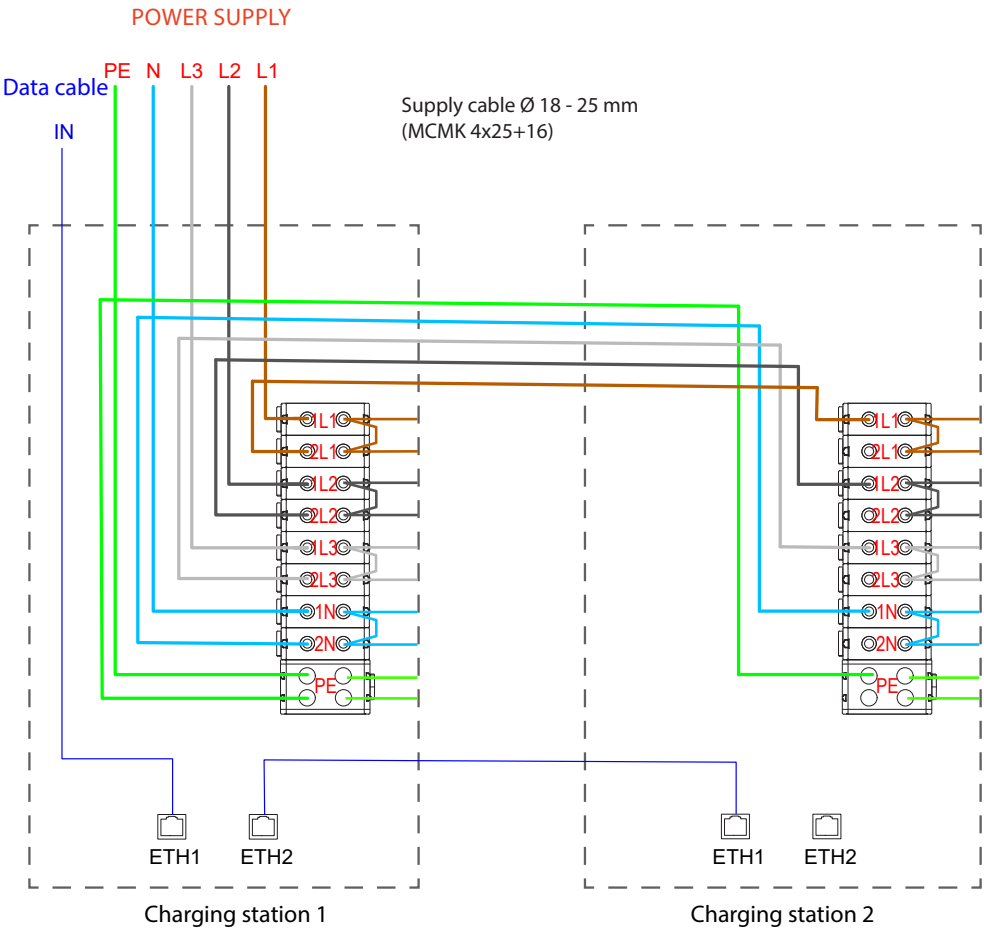
Remove the jumpers from the phase and neutral terminal blocks.

Tightening torque: 6Nm

Parallel connection of charging stations

The maximum quantity of connected charging stations depends on the system dimensioning made by qualified professional.

Internet connection can be established with 4G, Ethernet or WiFi.



Take into account that STP (Cascading Switches) is enabled in the Ethernet switch or disable the STP on the charging station.

Alternative cable entry from bottom
See chapter **6.2. Cable entries**

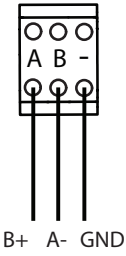
8. Commissioning

Before commissioning the charging station must be installed according to the installation instructions.

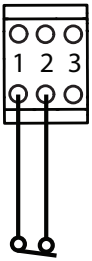
By default all charging stations are operating in free charging mode (standalone operation). In this free charging mode external communication (Ethernet, 4G, LAN or WiFi) is not active. If you connect the charging station to some back-office (online mode), first make sure that the basic functionality is working before establishing communication.

8.1. External connection terminals

Modbus-RTU:
External meter connection (Load Management)



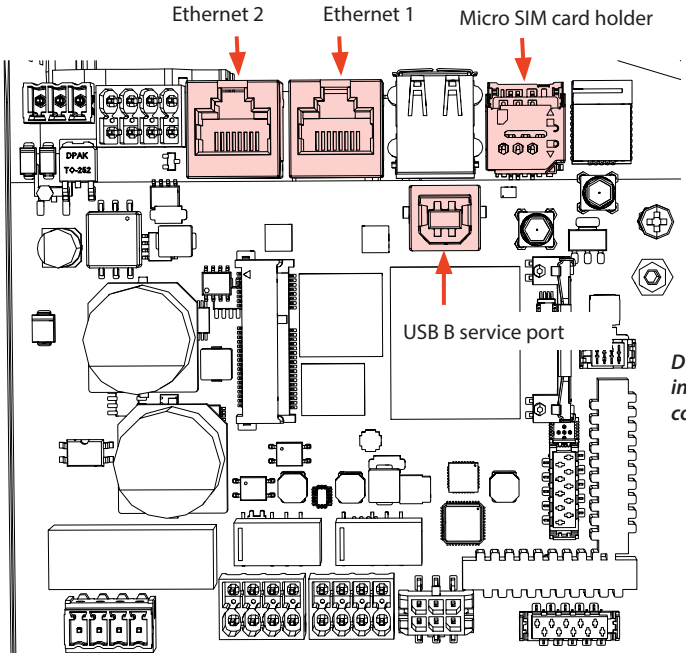
Dry Contact:
Switch / relay



- The input on the charging station end is based on so called dry contact terminal Normally Open / Normally Closed (NO / NC).
- This is configurable via the charging station settings.
- The charging station supplies the input terminal with +12V (logic high DC 11,4V ... 25,2V; logic low 0V) and detects if the dry contact terminal is open or closed.

8.2. View of the component layout on the control unit

Control unit on the left side (Master controller)



Do not remove any pre-installed USB devices from the control units!

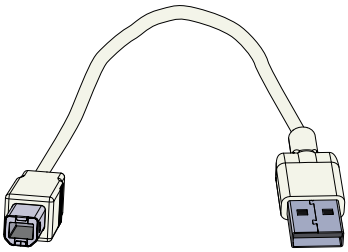
Connections to the control unit components

Component	Connection	Note
USB B Service port	Computer to the charging station	Connect to the control unit on the right side
Ethernet 1 / 2	Ethernet communication cable	Connect the input to the control unit on the left side. Ethernet 1 and 2 ports are interchangeable.
Micro SIM card holder	Connection to mobile network	The holder is on the control unit on the left side

8.3. Connecting to the charging station

If you want to change the default settings, you must connect to the charging station via USB cable to web browser to be able to start configure the commissioning settings. Use Firefox, Chrome or Windows Edge web-browser for configuring.

USB B
Connect to the charging station



USB A
Connect to the computer

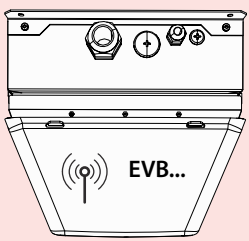
8.4. WiFi coverage area

A charging station can be connected to local WiFi network as client mode or access point mode. In access point mode max. 20 charging stations can be connected.

Internet connection routing can be established with 4G, Ethernet or WiFi.

Please contact your Legrand representative for detailed information.

Examine the available signal strength to make sure that the communication (4G, WiFi), reception and connectivity are working.



max. 10 m in free space

If you want to use a WiFi network, first do a WiFi survey to make sure that the network works correctly. The survey helps you to identify potential issues and optimize coverage.

General steps how to do a WiFi survey

1. Plan the survey.
   Define the purpose of the survey: estimate coverage, identify dead spots, optimize performance etc. Define the survey areas, including indoor and outdoor spaces.

2. Collect necessary tools.
   Get a WiFi survey tool or software. There are various free and commercial options available, such as Ekahau, NetSpot and Acrylic Wi-Fi Home.

3. Prepare the survey environment.
   Make sure that the WiFi network is working. Make sure that in the survey area are not any objects or interference sources that may affect signal propagation, such as large metal objects or other electronic devices.

4. Configure survey settings.
   Set the parameters in the survey tool based on your requirements. Select the appropriate frequency bands (2.4 GHz), set the channel width and specify the survey duration.

5. Do the survey.
   Walk through the survey area by following a systematic path, while the survey tool records the WiFi signal strength and other relevant data. Take note of the specific locations where measurements are taken.

6. Analyze the survey data.
   After the survey is completed, use features of the survey tool to analyze the collected data. Look for areas with low signal strength, high interference, or excessive co-channel and adjacent-channel interference. Identify potential sources of interference or coverage gaps.

7. Take corrective measures.
   Based on the survey results, take necessary actions to optimize the WiFi network. You may have to adjust access point placement, modify channel assignments, install additional access points or install additional repeaters to improve coverage.

8. Repeat the WiFi survey if necessary.
   If important changes are made to the network infrastructure or if you want further optimization, do additional surveys to evaluate the effectiveness of the modifications.

To get accurate results use professional tools which are intended for WiFi surveys. We recommend that you consult with a wireless network specialist or professional if you want in-depth analysis or troubleshooting assistance. Take into consideration that the WiFi environment is by nature changing, so it can change during the life cycle of the charging system.

Please see detailed commissioning instructions on www.legrand.com

9. Technical data

Electrical connections	
Nominal supply voltage *	3-ph, 400 VAC
Nominal frequency	AC 50 Hz
Charging current (nominal)	3 x 32A
Charging power (nominal)	2 x 22kW
Idle power loss (load not connected, Control Pilot state A)	approx. 9 W
Supply connections and terminals	L1, L2, L3, N, PE Cu 2.5–50 mm^2 (according to supply current and local regulations) Tightening torque: 4 Nm (2.5 - 4 mm^2), 6 Nm (6 - 50 mm^2)
	Cable gland M32: cable Ø 18-25mm
Grid connections	TN / TT (3-ph) / IT (2-ph, 230Vp-p)

* Supply voltage range 360 ... 460 V.

Please note that typically electric vehicles do not tolerate more than 7 volts of fluctuation in the main voltage.

Design and mechanics	
Materials	Frame and extension box: Powder coated mild steel Socket plates: Powder coated hot-dip galvanized steel Cover: Plastic (PETG and ABS) Sticker on the cover
Color	Frame and extension box: RAL7021 “Anthracite” Cover: White and black sticker
Weight	Total approx. 23 kg • charger: approx. 10 kg • extension box: approx. 13 kg
Ingress protection rating	IP54
Shock protection rate	IK10
Operating temperature	-25 °C … +50 °C
Environmental service conditions	Outdoor use
EV supply equipment classification	Equipment for locations with non-restricted access
Mechanical resistance for stationary assembly	High resistance
Resistance of insulating materials to abnormal heat and fire	Glow-wire test at 650degC as defined by IEC 60695-2-10
Relative humidity during operation	95 %, non-condensing
Operating altitude	Up to 2000 m

Design and mechanics	
Storage	-40 °C to +70 °C, < 95 %, non-condensing, enclosed storage
Overvoltage Category	OVC III
Standard	EN IEC 61851-1:2019, general requirements for electric vehicle conductive charging system
Approvals / markings	CE

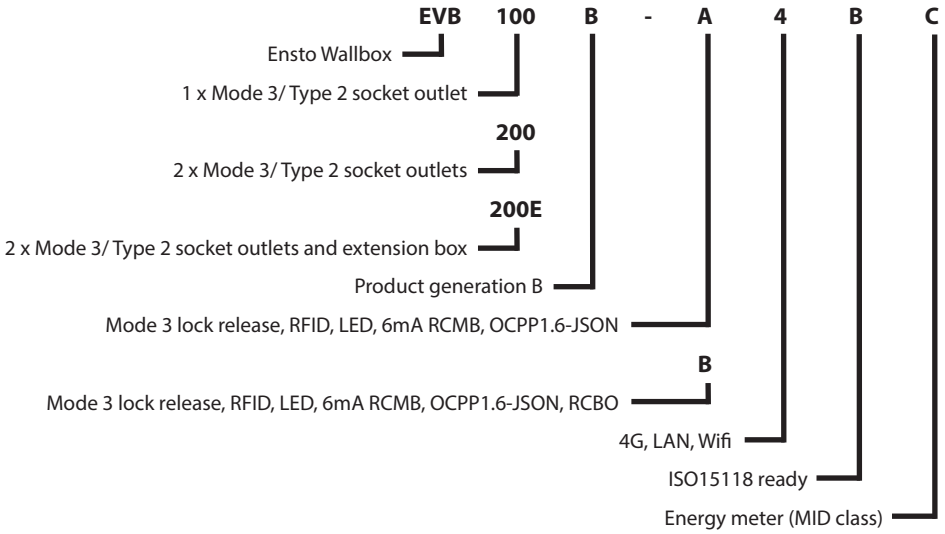
User interface	
Socket outlet	Mode 3 / Type 2 • The use of adapters or conversion adapters to connect a charging cable to the charging outlet is not allowed. • The use of cord extension sets to extend the charging cable range is not allowed.
Charging status indication	3-color LED • Green / Ready • Blue / Charging • Red / Error
Use access	RFID (ISO/IEC 14443A) Free access Mobile apps via 3rd party operators ISO15118 (Plug & Charge support)
Energy measurement	MID class B energy meter according to EN50470-3 (per charging point). See details in energy meter manufacturer's documentation.

Safety features	
Residual current Circuit Breaker with Overcurrent protection (RCBO)	Type A 30mA, class C,nominal current 32A
Residual current detection (RCD-DD)	integrated 6mA DC
Overvoltage and undervoltage protection	Configurable
Control voltage	12 VDC
Temperature control	High operating temperature, such as direct sunlight, can cause reduced charging current or temporary interruption in the charging procedure
Welding detection	Detection of faulty closing of the contactor contacts
PE monitoring	Checking the connection between the control unit and PE • PE monitoring does not replace the tests that are described in chapters **13. Installation / Commissioning checklist** and **14. Maintenance / Preventive maintenance instructions**
Emergency opener	In the event of a power failure, the plug of the charging cable is automatically unlocked so that the user can remove it. The emergency opener is integrated as a circuit on the controller of the charging station.
Tamper detection	The charging station sends an OCPP notification message to the backend system when the door is opened. This does not prevent charging.

Control and communication	
Operation mode	Standalone / Online
Wireless	4G/LTE WiFi 2.4 GHz (IEEE802.11b/g/n) 2 radios (hotspot and client simultaneously)
Wired	LAN / Ethernet
Protocol	OCPP1.6-JSON
Dynamic Load Management (DLM)	Local, embedded software feature over IP Protocol

Sustainability data	
PEP ecopassport (Product Environmental Profile)	PEP Designation https://register.pep-ecopassport.org/pep/consult
SVHC (Substances of Very High Concern)	SCIP is the database for information on Substances of Concern In articles as such or in complex Products established under the Waste Framework Directive (WFD) • Search related SVHC article ("Ensto Wallbox") from the link https://echa.europa.eu/scip-database

10. Code key



11. Cybersecurity

- Ensto branded EV charging stations are designed to meet the essential cybersecurity requirements outlined in Directive 2014/53/EU (EN18031-1,-2:2024).

11.1 Cybersecrity actions

- The manufacturer provides regular firmware updates. To guarantee secure operation it is essential to update the latest firmware. The responsibility to update the charger firmware is under operator/owner/back-office provider.
- By default, the charging stations do not collect personal data and the manufacturer is not liable for personal data handling, this is the responsibility of the operator/owner/back-office provider.
- The following telemetry data is available for authorized charging sessions: Session number, Start date, Start time, Duration, Energy, RFID tag, User name. Connecting this information to personal data is the responsibility of the operator/owner/back-office provider.
- For secure connection between the charging station and back-end encrypted communication must be used (for example secure version of OCPP WebSocket, WSS:/ and https for webUI connection).
- Factory reset erases all collected data and settings.

11.2 Unique access passwords

- Unique access passwords are purposed to access and configure the charging station settings via unit webUI. To comply with cybersecurity standards, unique passwords are generated and set for each individual charging station during the manufacturing process.
- Further, unique passwords are printed and placed in individual envelopes inside the charging station.
- The owner of the charging station is in responsible for safeguarding the valid unit passwords from misuse and ensuring that annual maintenance and other necessary activities to keep the charging station operational can be performed.
- The unique passwords define different user access rights (INSTALLER, OPERATOR) as detailed below.
- The charging station OWNER should change the operator and installer passwords immediately after the installation is completed.
- Password recovery service is available. Defined handling fees will apply. For detailed information, please contact Sales Support.

It is the responsibility of the password holder to protect the password from misuse.

NEVER GIVE YOUR PASSWORD TO AN UNAUTHORIZED PERSON!

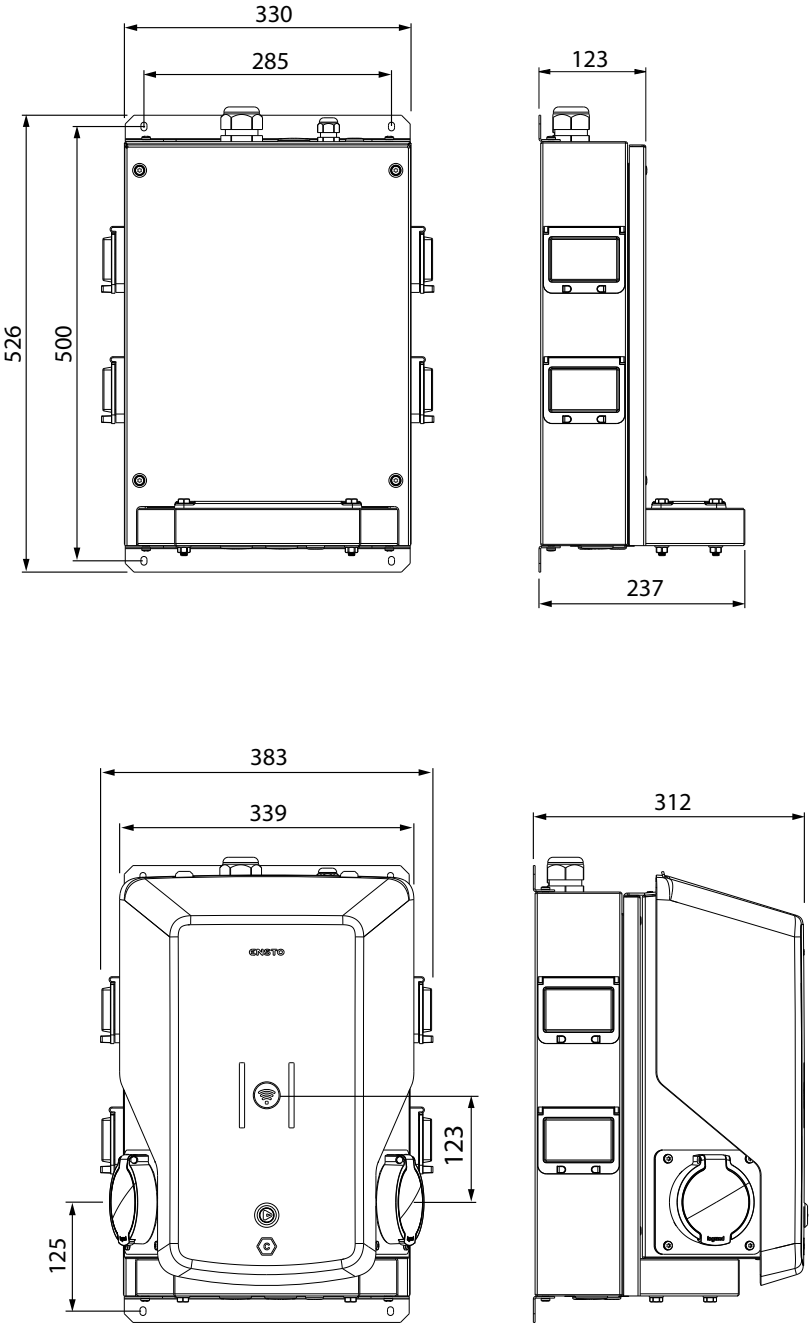
11.2.1 INSTALLER password

- Your unique password is in the INSTALLER addressed envelope, which is located inside the charging station delivery box.
- The ELECTRICAL INSTALLER can use the installer password to perform the electrical installation and commissioning of the charging station.
- When the installation and commissioning is completed, the INSTALLER envelope must be given to the charging station owner.

11.2.2 OPERATOR password

- Your unique password is in the OPERATOR addressed envelope, which is located inside the charging station delivery box.
- The OPERATOR has full acces to the charging station configuration.
- When the configuring is completed, the OPERATOR envelope must be given to the charging station owner.

12. Dimensional drawings



13. Installation / Commissioning checklist

Introduction

Examine the mechanical and electrical installation in accordance with this checklist to make sure that the charging station is properly installed.

Checking the Installation

Examine the visual, mechanical and electrical installation when the charging station is de-energized.

CATEGORY	X	ITEM
Overall look		You have received the ordered material.
		You have removed the protective plastic wrapping.
		You do not see any scratches or damages.
Mechanical installation		The charging station is mounted properly on the installation site.
Electrical installation		The charging station's power supply capacity meets electrical planning (cable size, protective devices…). Review the local electrical design plan.
		The PE-cable screw is tight.
		The power supply conductors (L1, L2, L3, N and PE) are properly connected.
		The insulation of the power supply cable and the conductors (L1, L2, L3, N and PE) is intact.
		The voltage between PE and N is less than 10 V.
		The PE conductor resistance is less than 3 Ω.
Operational check		All the LED states / colors (green, blue, red) and the RFID reader are functioning. • Use a car simulator. • Create fail and charge. • Red at bootup, green at idle and blue while charging.
		Test the functionality of the electric protective device (RCBO).
Ready for use		The correct SW is in use.
		Correct operating mode • Standalone • Online
		Test the data communication, if it is in use. Examine the available signal strength to make sure that the communication (4G, WiFi), reception and connectivity are working.

14. Maintenance / Preventive maintenance instructions

Recommended 1 x per year, take into consideration local regulations and national standards.
Protect the charging station against pollution (water, snow, dust).

WARNING

Danger of electrical shock or injury! Risk of fire!

Disconnect power before working inside the device or removing any components.

X	MAINTENANCE ACTION
	Retighten all the screws on electric components.
	Examine the Mode 3 socket for burn or damaged parts. If necessary, replace it (socket cost is not under warranty).
	Examine the charging cable for wear out and mechanical damage. If necessary, replace the charging cable.
	Examine the sealings for wear out. If necessary, replace the sealings.
	All the LED states / color (green, blue, red) are functioning. • Use a car simulator. • Create fail and charge. • Red at bootup, green at idle and blue while charging.
	Make sure that the PE-cable screw is tight.
	Test that the voltage between PE and N is less than 10 V.
	Test that the PE conductor resistance is less than 3 Ω.
	Test the surge arrester, if there is any.
	Check if there are software updates available. Update always the latest version released by the charging station manufacturer.
	Restart the charging station from F0. Make sure that it will restart properly.
	Clean possible dirt and dust from the surface of the charging station. Wipe carefully with a moist cloth.
	Examine the visible metal parts for rust. Apply anti-corrosion agent, if necessary.
	Test the functionality of the electric protective device (RCBO) every six months.

Maintenance actions done by:	Date:

15. Testing instructions for the electric protective device (RCBO)

- Press the **TEST** button.
- The rocker turns to **0** position.
- Turn the rocker back to **I** position.
- If a fault occurs, contact an electrician.

16. Troubleshooting

Charging station is off, no lights on

Issue	Corrective action
Mains voltage does not exist in the supply terminals (L1, L2, L3).	Make sure that the supply conductors are properly connected. Make sure that there is power available.
The circuit breaker F0 is off.	Turn the F0 on.
The PWR LED indicator on the control unit is not on.	Make sure that power supply to the control unit is available.

Charging cable is locked in Mode 3 socket outlet

Issue	Corrective action
Unexpected fault has occurred while the power is on.	Turn off the power from the F0 and pull the charging cable out from the socket.
The power is off.	Open the front cover. Switch the Mode 3 lock into open position.

Configuration via web browser

Issue	Corrective action
The PC does not recognize the USB plug and a connection to the control unit cannot be established via web browser.	Make sure from Windows operating system settings via "Device Manager" that RNDIS network adapter is available. If not, contact your local IT support.

17. Warranty

Warranty conditions, see https://www.legrand.fi/en/standard-guarantee-and-liability-terms

18. Declaration of Conformity

Hereby, Legrand Finland Oy declares that the radio equipment Ensto Wallbox charging station is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.legrand.fi/en

19. Disposal

Do not dispose of electrical and electronic devices including their accessories with the household waste.

- When the charging station is at the end of its life cycle, it must be disposed of properly according to local recycling guidelines.
- The cardboard packing of the charging station can be recycled.
- Dispose of the plastic wrap with the household waste or according to local recycling guidelines.

User Guide

20. User interfaces

LED indicator lights will show the status of the charging point as described below:

Charging point's status	LED light	LED operation
The charging point is free and ready to use	Green	Solid
RFID read, authorization ongoing	Green	Flashing
Charging authorization rejected	Red	Solid, 3 seconds
Authorization accepted, charging allowed	Green	Waving
While you connect the charging cable	Green	Flashing twice
Your vehicle is connected, charging has not started	Green	Waving
Your vehicle is connected, but no current flowing (stand-by)	Blue	Waving
Charging is ongoing	Blue	Solid
Error state	Red	Solid

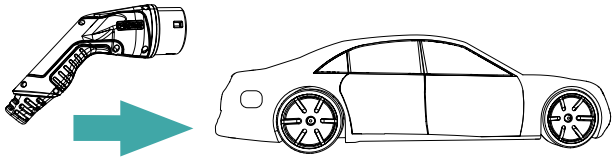
21. Charging

21.1. Free charging

Start charging

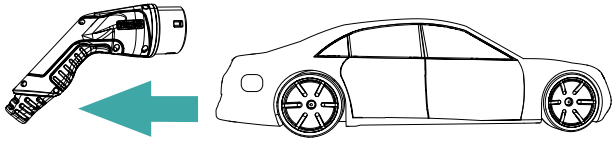
When the charging point is free and the LED indicator is solid green, you can start a charging event.

1. Plug the charging cable to your electric vehicle.
   Plug the charging cable to the charging point.
   The LED indicator turns to solid blue.



Stop charging

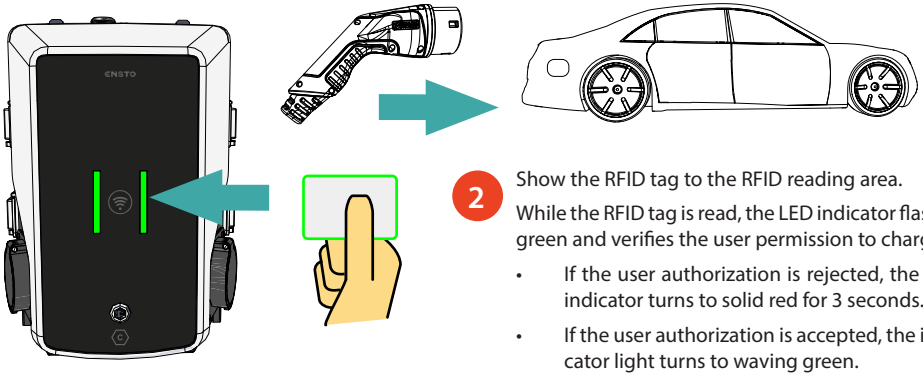
2. Unplug the charging cable from the charging point.
   Unplug the charging cable from your electric vehicle.
   After you have unplugged the charging point is free for the next user.



21.2. Charging with RFID

You must have an RFID tag which has a permission to access the charging point.

Start Charging with RFID

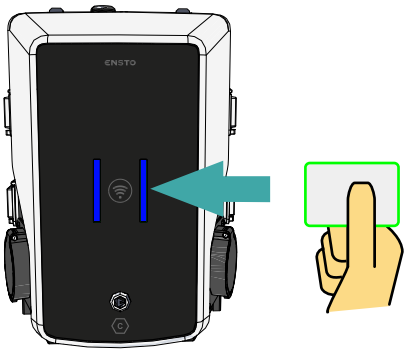


1. Plug the charging cable to your electric vehicle.
   Plug the charging cable to the charging point.

2. Show the RFID tag to the RFID reading area.
   While the RFID tag is read, the LED indicator flashes green and verifies the user permission to charge.
   - If the user authorization is rejected, the LED indicator turns to solid red for 3 seconds.
   - If the user authorization is accepted, the indicator light turns to waving green.

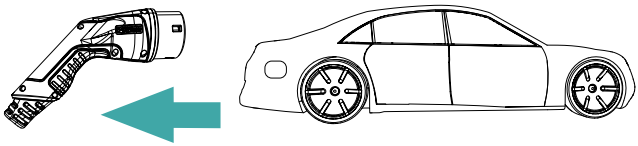
3. Charging event starts.
   - The LED indicator turns to solid blue.

Stop Charging with RFID



4. Show the RFID tag to the RFID reading area.
   Charging event ends.
   - The LED indicator turns to waving green.

5. Unplug the charging cable from the charging point.
   Unplug the charging cable from your electric vehicle.



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