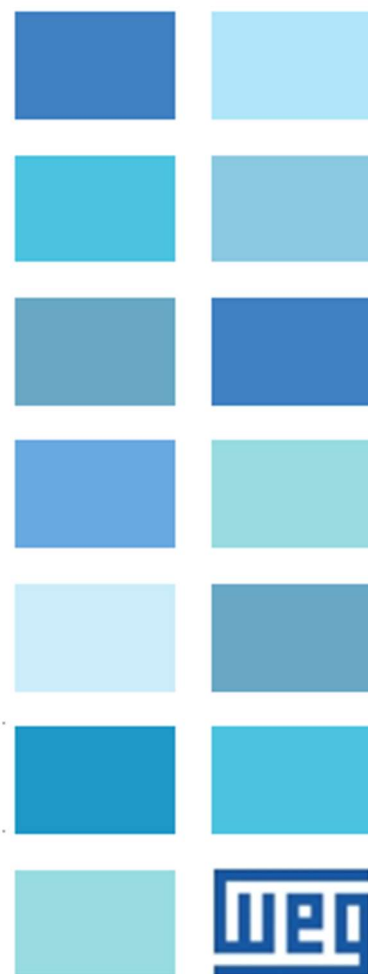


Installation and Operation Manual

WEMOB-STATION-CCS-30kW





Installation and Operation Manual

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1 SAFETY INSTRUCTIONS

This manual contains the necessary information for the correct installation and operation of the WEMOB-STATION electric vehicle charging station.



It was prepared to be used by people with proper technical training or qualifications to operate this kind of equipment.

1.1 SAFETY WARNINGS IN THE MANUAL

The following safety warnings are used in this manual:

	<p>DANGER! Not following the procedures recommended in this warning may lead to death, serious injuries and considerable material damages.</p>
	<p>ATTENTION! Failure to observe the procedures recommended in this warning may lead to material damages.</p>
	<p>NOTE! The information provided in this note is important for the correct understanding and proper operation of the equipment.</p>

1.2 PRELIMINARY RECOMMENDATIONS

	<p>DANGER!</p> <ul style="list-style-type: none"> • Only people with proper qualification and familiarized with charging stations are allowed to perform the installation, start-up and maintenance of this equipment; • Such personnel must follow the all the safety instructions contained in this installation and operation manual and/or defined by local regulations; • Failure to comply with the safety instructions may result in death, serious injury and/or equipment damage; • A damaged charging station must be removed from service and repaired. The repair must be carried out by the manufacturer or its representative only. No alteration or modification to the charging station is permitted; • Always disconnect the general power supply before touching any electrical part in connection with the electric vehicle charging station; • Do not allow children or people with reduced physical, mental or sensory capabilities to operate the charging station.
	<p>NOTE! For the purposes of this manual, qualified personnel are those trained and able to:</p> <ol style="list-style-type: none"> 1. Install, ground, power up and operate EV charging station in accordance with this manual and the legal safety procedures in force; 2. Wear/use protective equipment according to the standards in force; 3. Provide first aid.

ATTENTION!



- The electronic boards have electrostatic discharge sensitive components. Do not touch the components or connectors directly;
- If the charging station will not be used for a long period, it is recommended to keep it switched on to prevent condensation inside.

NOTE!



- Read this manual thoroughly before installing or operating this equipment.
- WEMOB® is a trademark of WEG S/A.

1.3 CARE WITH THE CHARGING CABLE

Follow the instructions below to avoid damage to the charging cable:

- Unwind the entire charging cable before starting to use it;
- Do not drop the end of the cable (plug);
- Never connect the charging cable to an extension cord or adapter;
- Never disconnect the charging cable, either from the station or from the electric vehicle, just by pulling it. It must be disconnected by pulling it by the plug;
- Make sure the charging cable is in an area free of obstacles, it is not bent, pinched or jammed;
- Make sure the charging cable will not touch heat sources, pointed or sharp objects;
- A deteriorated charging cable can cause a short circuit, fire, or electric shock;
- Do not use this product if the charging cable is worn, the insulation is damaged or dirty or shows any other signs of damage;
- Make sure the charging cable will not cross pedestrian and/or vehicle traffic routes, where it may be stepped on or subjected to mechanical stresses, which may cause pedestrian to trips, and damage to cables and to the charging station;
- Do not pull the charging cable with excessive force;
- Never touch the charging cable/plug with wet hands;
- Protect the charging cable from the weather. Do not immerse the cable in water or other liquids;
- Protect the electric vehicle connecting plug against the ingress of liquids or foreign bodies. Do not make any changes or adaptations to the plug;
- After use, insert the charging plug into its socket located on the side of the station.

NOTE!



Throughout the manual, the term "charging cable" is used to designate the set consisting of electrical cables and the plug to connect to the electric vehicle.

2 GENERAL INFORMATION

2.1 ABOUT THE MANUAL

This manual contains directions for installing and commissioning the WEMOB-STATION EV charging station and describes its main features.

Copying the content of this manual, in whole or in part, is prohibited without WEG's written consent.

2.2 TERMS AND DEFINITIONS USED IN THE MANUAL:

A: Ampere, electric current level unit of measurement.

APN: Access Point Name.

°C: Temperature unit in degrees Celsius.

AC: Alternating Current.

DC: Direct Current.

CCS: Combined Charging System.

CHAdemo: Abbreviation for Charge de Move, trade name for a fast charging method for electric vehicles.

PPE: Personal Protective Equipment.

FCK: Feature Compression Know.

FOTA: Firmware Over The Air.

IMD: Insulation Monitoring Device.

kg: Kilogram, mass unit of measurement.

kVA: KiloVolt-Ampere = 1000 (10³) VA.

LGPL: Lesser General Public License.

m: Meter, length unit of measurement.

mm: Millimeter = 0.001 m.

cm: Centimeter = 0.01 m.

in: Inch, length unit of measurement.

MPa: Pressure unit of measurement in mega Pascal.

Nm: Newton meter, torque unit of measurement.

OCPP: Open Charge Point Protocol – standard and open protocol for communication between charging stations and a central system.

PE: Protective earth.

RCCB: Residual Current Circuit Breaker.

RFID: Radio Frequency Identification.

V: Volt, voltage unit of measurement.

VA: Volt Ampere, apparent power unit of measurement.

EV: Electric Vehicle.

2.3 ABOUT THE CHARGING STATION

The WEMOB-STATION electric vehicle charging station is a high-performance product that provides fast charging of electric vehicles at alternating current (AC) or direct current (DC), individually or simultaneously, controlling, monitoring and protecting the equipment and users.

It has one (1) standard CCS (Combined Charging System) type 2 direct current (DC) combo connector.

With a modern design, the WEMOB-STATION charging station can be installed indoors and outdoors; it is the complete solution for the fast charging of electric vehicles at service stations and highways.

It features a 10.1" color display that provides a user-friendly interface with instructions and detailed information to start and stop a charge, including information about the charge in progress, charging time, battery charge level etc., allowing you to operate the charging station in an easy and intuitive way.

The WEMOB-STATION charging station has connectivity via wireless data network (Wi-Fi), wired Ethernet (RJ45) and smartphone (LTE Cat M1 or LTE Cat NB1), RFID (Radio Frequency Identification), LED indicators and audible signal to indicate the station status and/or monitor the charging process.

2.4 OVERVIEW

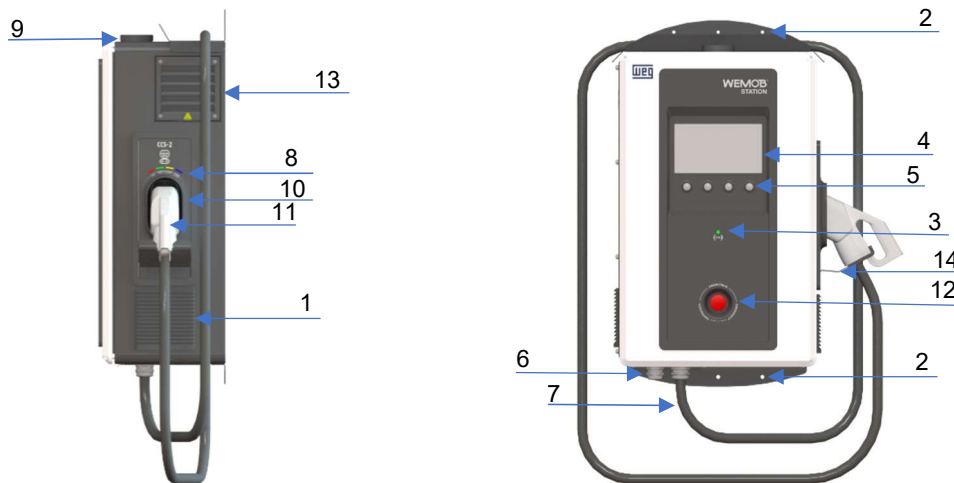


Figure 1: WEMOB-STATION 30 kW CCS-2 Charging Station Overview

Table 1: WEMOB-STATION 30 kW CCS-2 Charging Station Overview

1 - Side air inlet	9 - Wi-Fi/Cellular antenna
2 - Mounting	10 - Socket to keep the CCS-2 charging plug
3 - RFID Reader/LED	11 - CC CCS-2 charging plug
4 - 10.1" display	12 - Emergency pushbutton
5 - Selection buttons	13 - Side air outlet
6 - Power supply cable entry	14 - Bracket to support the CCS-2 charging cable
7 - CCS-2 charging cable exit	-
8 - Charging status LEDs	-

2.5 IDENTIFICATION LABEL

The identification label of the WEMOB-STATION is positioned outside the back wall. This label contains important information about the station.

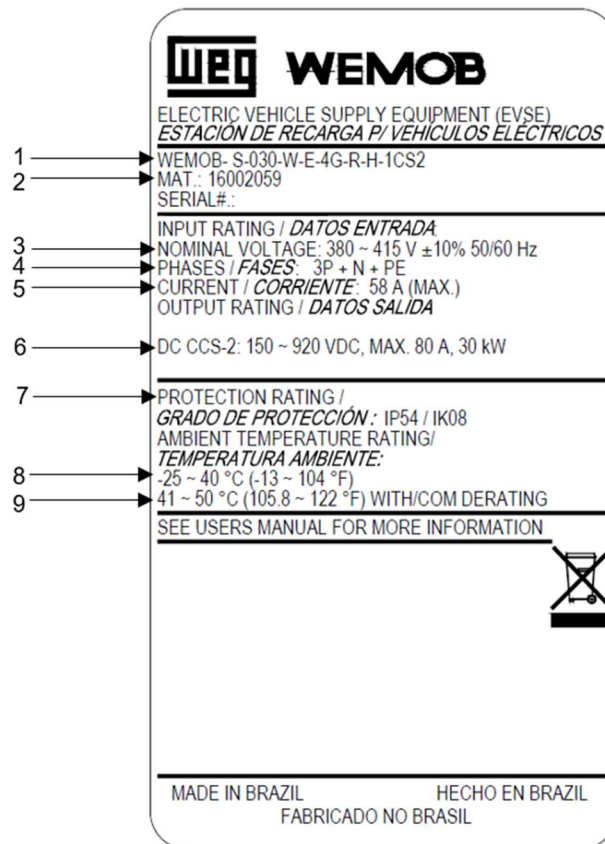


Figure 2: WEMOB-STATION G2 CCS-2 identification label

Table 2: WEMOB-STATION G2 CCS-2 identification label

1 - Product model	6 - CCS-2 plug maximum output power, voltage and current
2 - Stock item	7 - Protection rating
3 - Rated supply voltage and frequency	8 - Ambient temperature range
4 - Number of phases	9 - Ambient temperature range with derating
5 - Maximum input current	-


2.6 CONSTRUCTION

The WEMOB-STATION charging stations are made with steel sheets painted and processed (cut, drilled, bent, chemically treated, painted and finished) by WEG or accredited manufacturers, ensuring quality in every step of the manufacturing process. The unpainted parts of the station are galvanized or otherwise treated to ensure corrosion resistance.

It can be installed indoors or outdoors, having IP54 and IK08 protection rating.

The charging station is cooled by forced convection. The air enters through the grilles on the sides of the station, circulates inside the station and passes through the heatsinks located in each of the power modules (AC/DC converters). The hot air exits through the upper side of the station, where the exhaust fans are.

The grille filters can be cleaned or replaced from the outside.



ATTENTION!
The air outlets can reach temperatures close to 80°C.

2.7 CONNECTORS

The WEMOB-STATION has a 4.3 m charging cable with CCS-2 Combo plug, suitable for the maximum output current of the charging station (80 A), which can fit a variety of electric vehicles (EV):



Figure 3: WEMOB-STATION CCS-2 connector model

To release the connector from the socket located on the side of the station, perform the sequence of movements shown below.

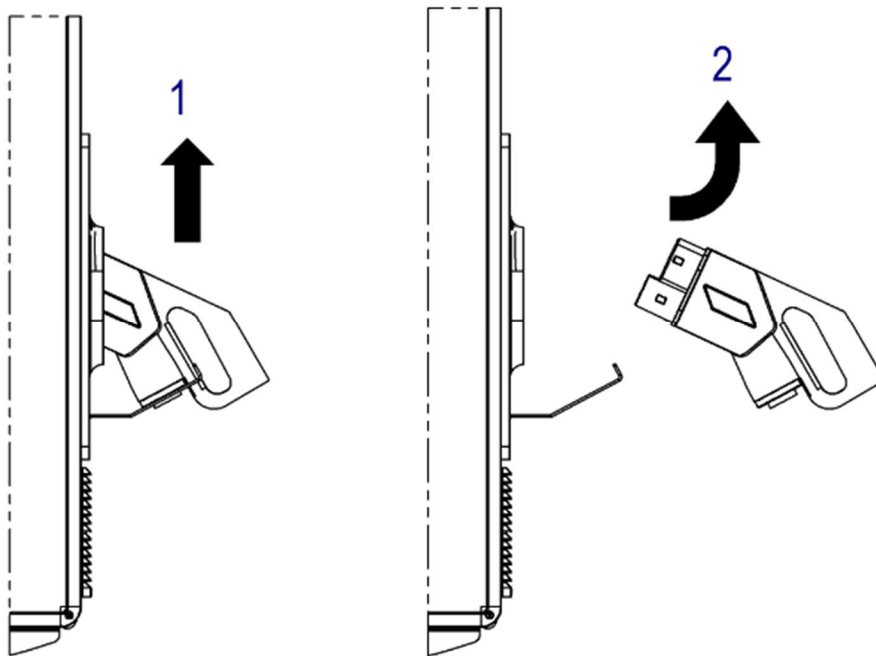


Figure 4: Procedure for removing the connector (plug) from the socket



NOTE!

When the electric vehicle is completely charged, insert the connector into the socket located on the side of the station. Do not leave the charging cable on the floor.

2.8 LED INDICATOR AND AUDIBLE ALARMS

Over the socket for keeping the charging plug is a set of LED indicators that provide visual information about the operating status of the charging station. It consists of four (04) LEDs, which can light up or flash together or individually, in various colors. In addition, beeps can be emitted to inform the status.

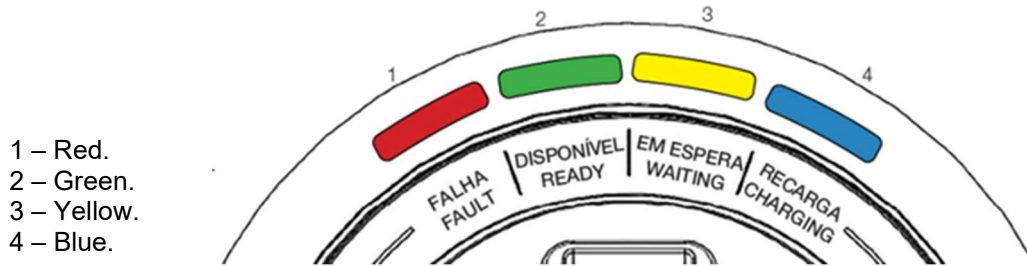


Figure 5: LED indicators

Table 3: Status indication

LED Color	Status	Description
All LEDs flashing	STARTING	Charging station in self-test
All LEDs off	OFF	Charging station without power supply
Solid green	AVAILABLE	Station ready for use
Flashing green	AUTHORIZED	User authorized for charging (only if the station requires authentication)
Solid yellow	STANDBY	Electric vehicle connected and in recognition process
Flashing yellow		Charging ended (complete or not)
Solid blue	CHARGING	Charging in progress
Solid red	FAULT	Station in fault state
Flashing red		Station in error state

NOTE!

In case of error, in addition to the indication LED, the charging station will emit a long beep.



2.9 RECEIVING AND STORAGE

The WEMOB-STATION is supplied in an OSB wood box.

Upon receipt, check that:

- The identification label matches the purchased model;
- Damages occurred during transportation. If any problem is found, contact the carrier immediately;
- If the WEMOB-STATION is not installed soon, keep it in the package closed and store it in a clean and dry location with temperature between -25 °C and +45 °C.

After receipt:

- Do not store it in direct sunlight, rain, extreme cold, excessive humidity or sea air;
- Store it in a clean and protected place with the air relative humidity not above 80%;
- During the storage period, the conditions mentioned above must be met; however, when the components are stored for more than one year, measures must be taken to dehumidify the storage place;
- When using equipment after a long period of storage, check that the equipment is free from scratches, dirt, rust and so on.

**NOTE!**

The performance and reliability of the WEMOB-STATION charging station may be impaired if it is stored in an environment outside the aforementioned conditions.

3 INSTALLING AND CONNECTING

This chapter describes the mechanical and electrical installation procedures for the WEMOB-STATION. The directions and suggestions must be observed in order to ensure the safety of people and equipment and its proper operation.

3.1 RECOMMENDED HANDLING PROCEDURE

It is recommended to completely remove the packaging only after positioning the WEMOB-STATION charging station in the final place of operation. Before lifting or moving the charging station, read the instructions below to learn about the available points for mechanical connection of lifting equipment, transportation and weak points.

3.1.1 Handling

If using a crane or hoist, make sure that the movements are slow and smooth so that the WEMOB-STATION will not suffer excessive swing or vibrations.

When using hydraulic carts, forklifts, rollers or other handling equipment, distribute the mechanical support points of such equipment from one end of the WEMOB-STATION to the other, avoiding applying pressure on fragile areas. If the packaging has already been removed, make sure that all WEMOB-STATION walls are closed

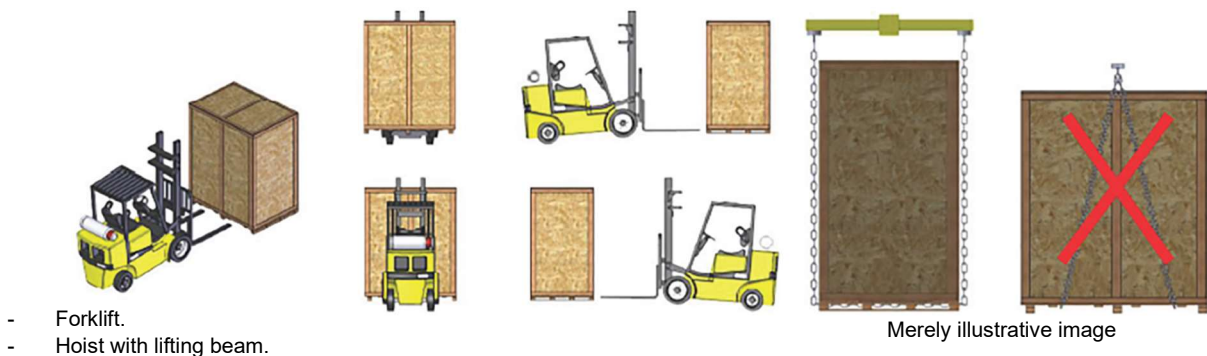


Figure 6: Procedure for handling with forklift or hoist

ATTENTION!
The use of chain under the box for lifting and handling is prohibited.

3.1.2 Opening the Package

Use suitable tools to unpack the WEMOB-STATION, always taking care not to damage the equipment.

While opening the package, check if there are damages to the product. Do not install the WEMOB-STATION charging station in case you suspect any damage.

Remove any particles from the package (plastic, wood, styrofoam, metal, nails, screws, nuts etc.) that may have remained in the charging station.

ATTENTION!

- Use personal protective equipment (PPE).
- If any component has problems (damage), it is recommended:
 - Stop opening the package immediately;
 - Contact the carrier and formally record the problem encountered;
 - Photograph the damaged parts and/or components.

3.2 MECHANICAL INSTALLATION

The WEMOB-STATION is designed for indoor or outdoor operation. Therefore, it is necessary to ensure some specifications to protect the device in its installation site.

**NOTE!**

Be careful not to damage the circuit boards or components during installation.

3.2.1 Environmental Conditions

The following criteria must be observed when selecting the appropriate installation place:

- The mounting surface must be stable and resistant enough to withstand the charging station mass;
- Do not install the charging station on inclined surfaces, under suspended objects or furniture that could fall and damage it;
- Do not install the charging station near pedestrian and/or vehicle traffic routes, where the charging cable crosses such routes;
- Provide a minimum space of 0.4 meters around the entire station to allow the circulation of users;
- When installing the WEMOB-STATION in a place with direct sunlight, the output power may reduce due to the heating caused by the sunlight.

To ensure proper operating conditions and a longer service life of the station, the following requirements must be observed:

- Avoid direct exposure to sunlight, rain, snow, extreme cold, excessive humidity or sea air, electrical storms or other adverse weather conditions;
- Do operate the station close to appliances that emit heat;
- Do not install the station close to walls or other equipment without respecting the minimum clearance distances;
- Do not spill water or other liquids over the equipment;
- Avoid exposure to flammable, explosive or corrosive gases or vapors;
- Do not expose it to excessive vibration;
- Do not expose it to dust, metallic particles or oil mist;
- Never expose it to strong water jets, such as pressure washers, garden hoses etc.

Environmental conditions for operation:

- Temperature: -25 °C to 40 °C - rated conditions. From 41 °C to 50 °C - with derating;
- Air relative humidity: 5% to 95% non-condensing;
- Install the station in environments with air circulation;
- Maximum altitude: 2000 m above sea level - rated conditions. For applications at higher altitudes, contact WEG;
- Condensation must not cause conductivity in the pollution.

3.2.2 Cleaning and Maintenance



DANGER!

Before starting cleaning and/or servicing the charging station, make sure that the upstream circuit breaker is turned off.

To ensure proper operating conditions and a longer service life of the station, the following requirements must be observed:

- Periodically clean the outside the station, cables and charging plugs. It is recommended at least once a month;
- Clean it with the station turned off;
- Never perform the cleaning while the electric vehicle is being charged;
- To perform the cleaning, use a soft, dry cloth only;
- Do not use abrasive cloths, sponges and detergents;
- Do not spill water or other liquids over the equipment;
- Do not use alcohol, solvents or chemical products;
- If the charging station is very dirty, use a cloth slightly dampened with water to remove dust and accumulated dirt;
- Always keep the air inlets clean and free of any material that may prevent air circulation;
- Clean the air filters every 6 months;
- Replace the air inlet and outlet filters every 12 months;
- Optionally, apply automotive wax only to metal parts for extra protection.

The following points need to be checked regularly:

- Condition of the protection and switching devices, especially regarding the wear caused by arc and loosening of the contacts;

- Charging cable and connector: check the connector and cable for cracks, check if the cable jacket is in perfect condition and that no internal wires of the cable are visible;
- Condition of the conductors and their connections, especially the protective ones;
- Display: check for signs of damage or cracks, fissures in the protective acrylic or stains on the display;
- Metal cabinet: check the cabinet for dents that compromise the protection rating, oxidation points (rust), paint flaws etc;
- Emergency button: check for signs of cracks, fissures, and if the locking/release mechanism is working;
- Fan status;
- Resistance of the ground electrodes that feed the charging station.

If any of the following cases occur, the station must be immediately de-energized and taken out of service:

- If the station was hit by electrical discharge (lightning);
- If the station was damaged by accident or other direct impact;
- If the station was damaged by fire;
- If the place where the station is located was flooded;
- If there is a failure in the seal that compromises the protection rating.

**DANGER!**

A damaged charging station must be removed from service and repaired. The repair must be carried out by the manufacturer or its representative only. No alteration or modification to the charging station is permitted.

**NOTE!**

In heavily polluted environments, it may be necessary to perform the cleaning and change the air filters more often.

If the performance of the charging station drops, the air filters must be replaced.

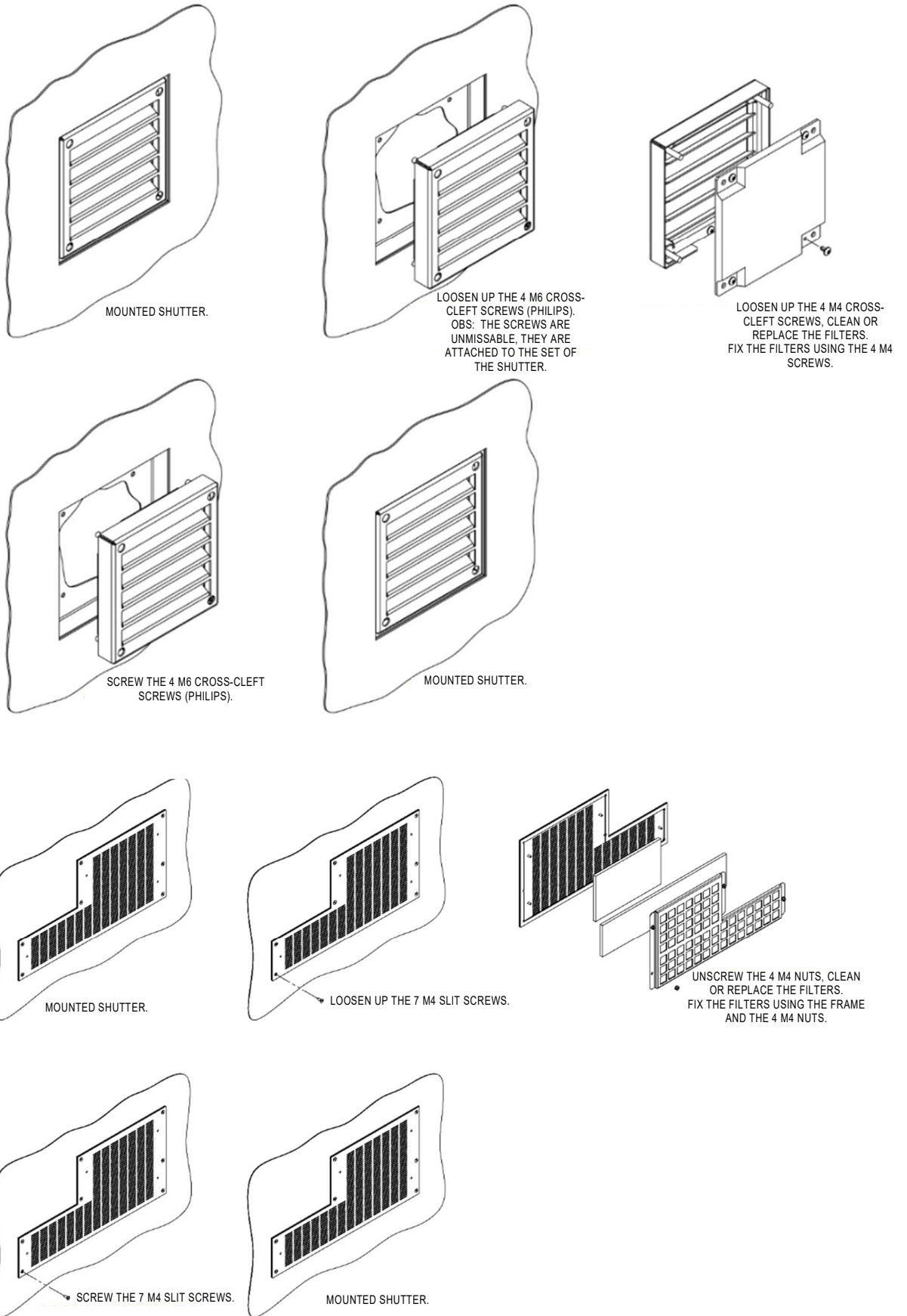


Figure 7: Replacement of air filters

3.2.3 Corrective Maintenance

Every fault or abnormality observed in the electrical equipment in operation must be communicated to qualified personnel for the proper repair.

That must be done especially when the protection devices actuate without any known reason.

When the protection circuit breaker trips, identify and solve the cause before turning the equipment back on.

If the WEMOB-STATION is defective, contact WEG Technical Support on the phone 0800-7010701 or e-mail 0800@weg.net.

3.2.4 Positioning

A minimum space of 0.4 meters must be provided around the entire station (above, below and on the sides) to allow good air circulation and better heat dissipation, in addition to the circulation of users.

In order to prevent overheating, the ventilation openings must not be blocked.

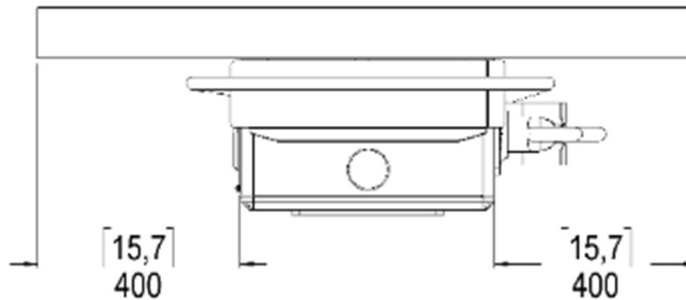


Figure 8: Minimum recommended clearance in inches and mm - ["] mm

**ATTENTION!**

The position of the WEMOB-STATION must allow the necessary ventilation flow for its operation.

3.2.5 Mounting

The WEMOB-STATION is fixed in six (6) points, three (3) on the upper face and three (3) on the lower face. The WEMOB-STATION can be fixed directly on the wall, with the kit supplied separately, or on a pole, an optional item that can be purchased together with the WEMOB-STATION.

- **Wall mounting:** to fix the WEMOB-STATION on the wall, it is necessary to use the kit supplied separately, which has bushings, washers, lock washers and screws. It is essential that the six (6) fixation points be used to guarantee a secure fixation for the charging station and the operator;

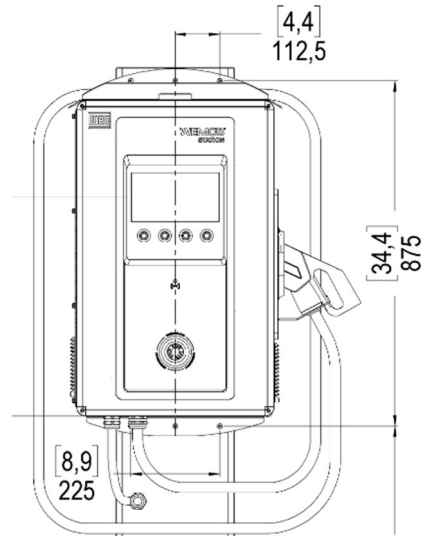
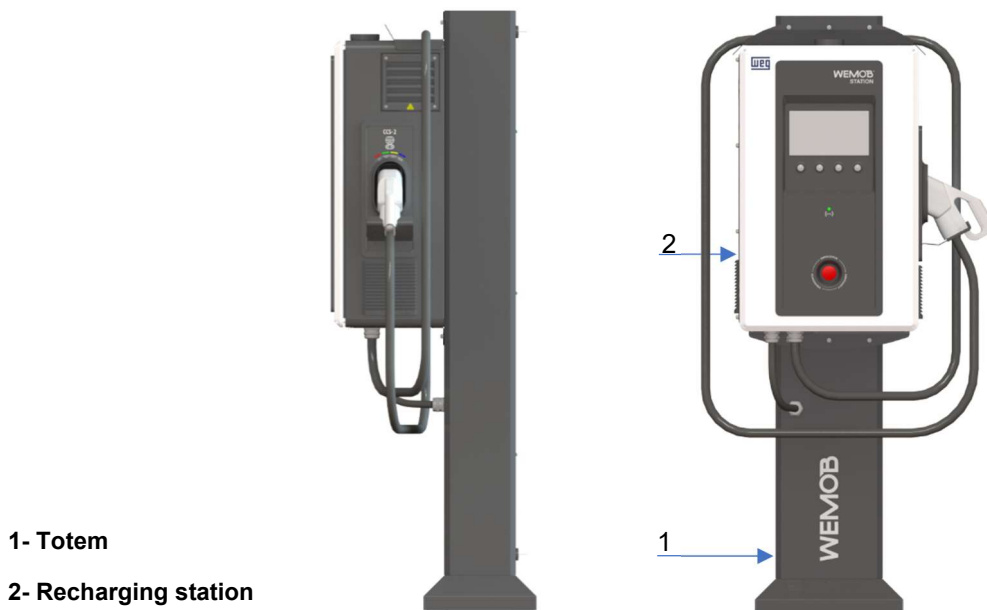


Figure 9: Distance between fixing holes in inches and mm - ["] mm

- **Pole mounting:** to fix the WEMOB-STATION on a pole, it is necessary to purchase the pole kit informing WEG material 16084832. The kit, in addition to the pole, contains screws and anchor bolts to fix the pole and the charging station. The charging station must be mounted through its six (6) fixing points to guarantee a safe mounting for the charging station and the operator.



- 1- Totem
- 2- Recharging station

Figure 10: WEMOB-STATION with pole

The pole must be fixed using the four (4) anchor bolts provided with the pole kit, as shown in the following figures:

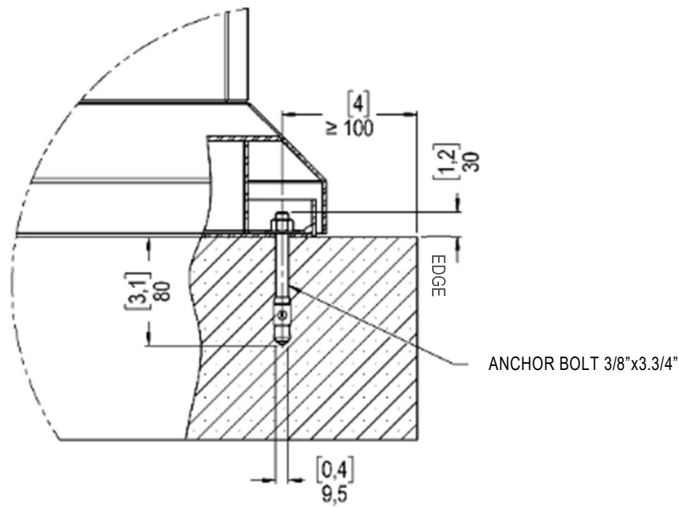


Figure 11: Pole anchor bolt detail in inches and mm - ["] mm

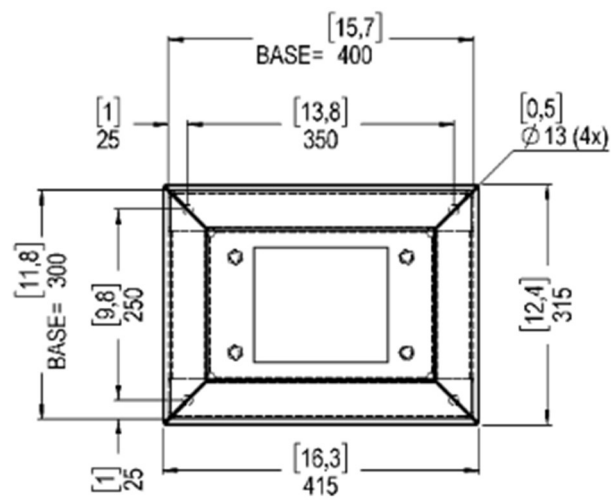


Figure 12: Pole base detail in inches and mm - ["] mm

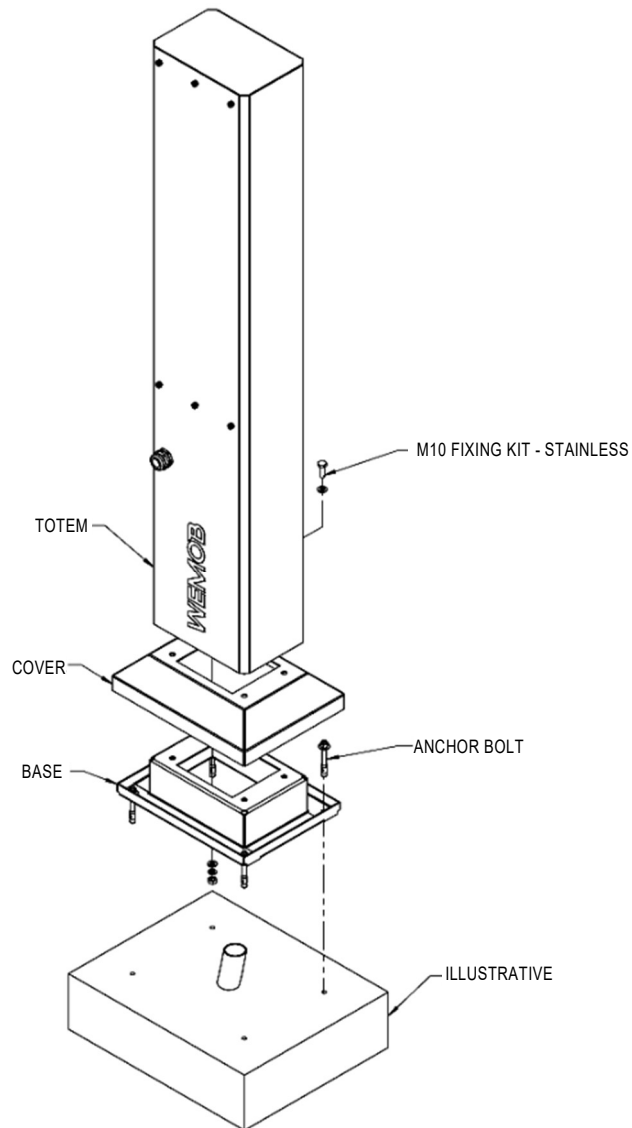


Figure 13: Pole mounting detail



ATTENTION!

- It is essential to ensure the correct installation of the WEMOB-STATION, thus avoiding possible damage to the charging station and operators.

3.3 ELECTRICAL INSTALLATION

The following information is a guide to the proper installation. Also comply with the applicable local regulations for electrical installations.

DANGER!



- The WEMOB-STATION demands high current and consequently high power for its operation. Make sure that the demand requirements will be met by the electrical infrastructure of the facilities;
- Guards and installations must comply with national, state and local electrical installation rules and regulations;
- Make sure the supply line is disconnected before starting the connections;
- The supply line voltage must be compatible with the WEMOB-STATION voltage range;
- The charging station must be connected to a protective earth (PE).

ATTENTION!



- When flexible cables are used for the power and ground connections, it is necessary to use suitable terminals at the cable ends;
- All electrical connections must be well tightened so that there is no risk of sparking, excessive heating or voltage drop in the circuits;
- It is recommended to use copper conductors;
- Ensure that during installation and use, the charging station is constantly and properly connected to a protective earth (PE);
- Do not share the grounding wiring with other equipment that operate with high currents (e.g., welding machines, high power motors, etc.).

3.3.1 Grounding Requirements

The charging station must be connected to a protective earth (PE).

Do not use the neutral for grounding, but a specific conductor. The grounding resistance must be lower than 100 Ω or lower than the maximum value defined in the applicable electrical installation standards, and the voltage between neutral and earth, lower than 10 V.

Do not share the grounding wiring with other equipment that operate with high currents (e.g., welding machines, high power motors, etc.).

ATTENTION!



Ensure that during installation and use, the charging station is constantly and properly connected to a protective earth (PE).

3.3.2 Connecting the Power Supply

The WEMOB-STATION must be installed with a 5-wire 16 mm² multicore cable, with three cores for the phases, one core for the neutral, and one core for the ground. The multicore cable must have an external diameter of 18 to 25 mm to guarantee the sealing of the charging station through the cable gland.

The cables to the WEMOB-STATION must be connected to the points of the circuit breaker, neutral terminal and ground bar, as shown in the figure:

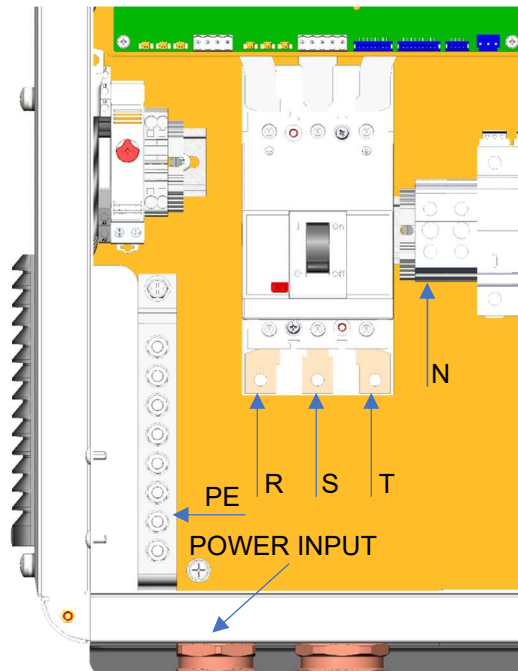


Figure 14: Power input

3.3.3 Protection Device



ATTENTION!

The WEMOB-STATION must be connected to an exclusive four-pole protection circuit breaker for the charging station power circuit with residual current protection 30 mA sensitivity (AC) type A.

Determine the rated operating current of the circuit breaker upstream from the WEMOB-STATION charging station according to the data provided by the manufacturer, the maximum input current of the station, the short circuit levels of the installation and the station, the gauge and length of the power cables.

Also take into account the derating of the circuit-breaker rated current as a function of the ambient temperature in which the circuit-breaker is installed (in the distribution panel or circuit-breaker board), in addition to the selectivity of the protections.

3.3.4 Preparing for Energization

Before energizing the WEMOB-STATION, check that:

- All the power, grounding and control connections are correct and secure;
- The resistance between the ground (PE) of the station and the ground (PE) of the low voltage switchgear complies with local regulations;
- All tools, materials used in the installation or foreign objects that are not part of the product have been removed from inside the WEMOB-STATION;
- With the aid of a voltmeter (AC), check the line and phase voltage values. Voltages between terminals R, S and T of Q1 circuit breaker must be within the station permissible operating range (line voltage 380 - 415 V AC \pm 10 %). Also check that the voltages between phases (RST) and neutral (N) are within the station permissible operating range, phase voltage 220 - 240 V AC \pm 10 %).

4 ONE-LINE DIAGRAM

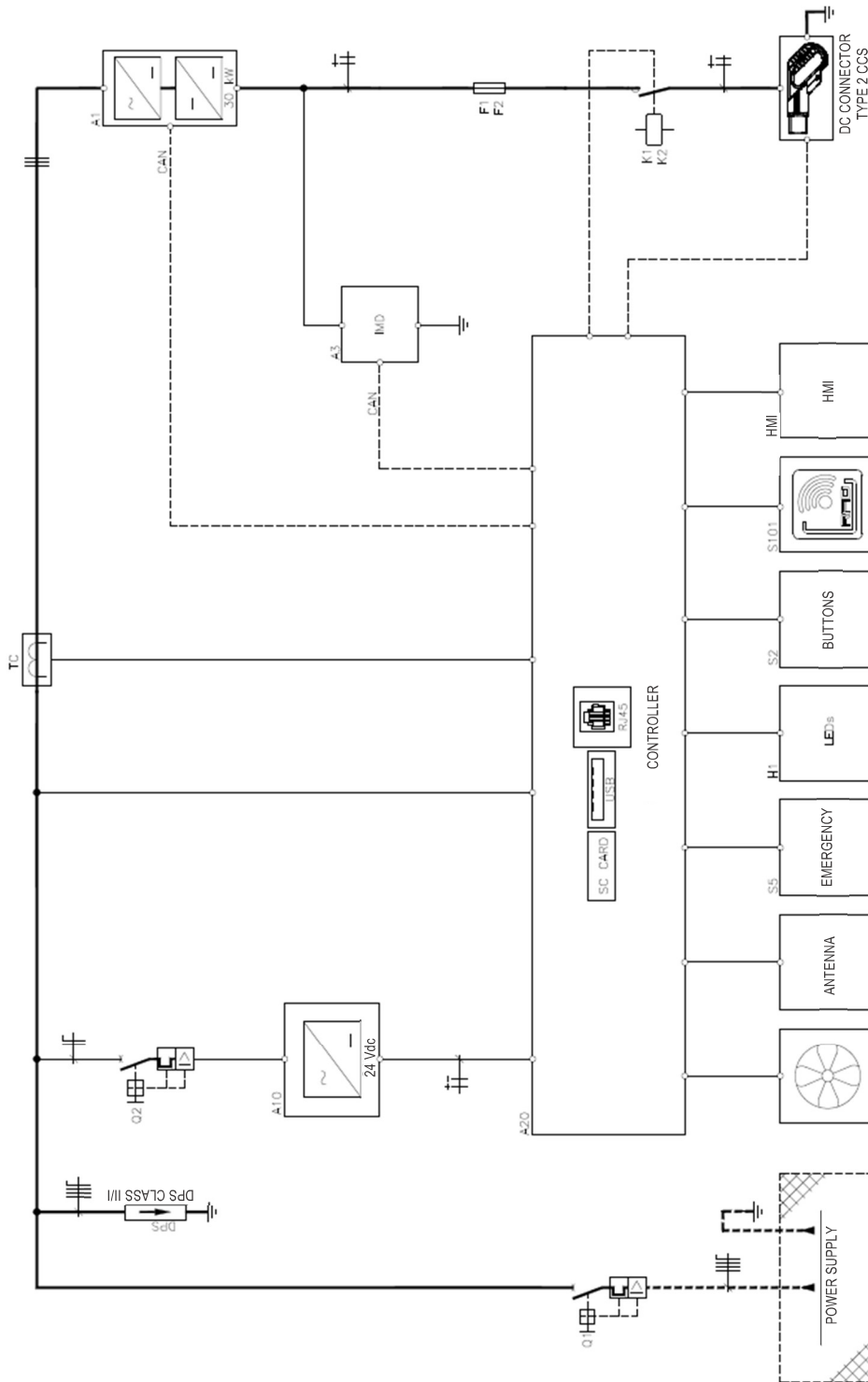


Figure 15: One-line diagram

Table 4: Characteristics of the one-line diagram components

Description (Component Tag)	Station Model (Station Power)
Molded-case circuit breaker (Q1)	80 A
NH2 aR fuse (1F1/1F2)	100 A
Circuit breaker (Q2)	10 A

5 EMERGENCY PUSHBUTTON

The WEMOB-STATION charging station has an emergency pushbutton on the front. In emergency situations the button must be pressed! When pressed, the charging in progress will be immediately interrupted, and the power output safely de-energized, protecting the user and the station itself. The display will remain on to report the fault and show instructions to the user.

The display will remain on to report the fault and show instructions to the user.

NOTE!



- DO NOT PRESS THE EMERGENCY PUSHBUTTON UNLESS THERE IS AN EMERGENCY!
- The emergency button must not be used as an option to end a charging procedure or to stop another user from charging;
- The same fault message is shown on the display if the emergency button is pressed.

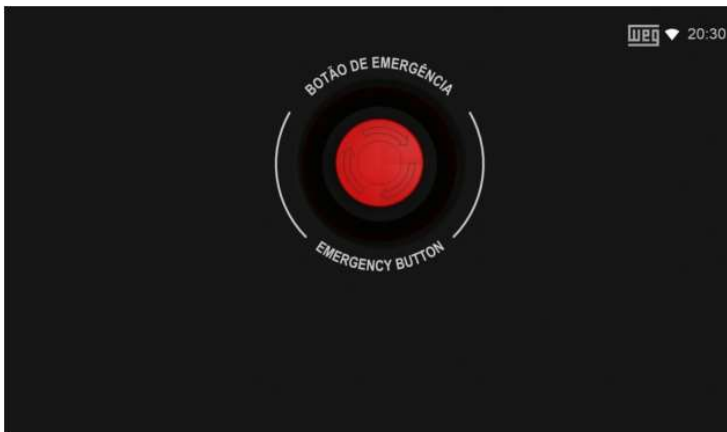


Figure 16: Screen signaling that the emergency button was pressed Figure 17: Reset system

If there is an emergency, press the emergency pushbutton, remove the charging plug from the electric vehicle and inform the charging station manager immediately.

Once the emergency condition is eliminated or it is observed that the button was accidentally or intentionally pressed, unlock the button by twisting it clockwise.

After the emergency pushbutton is reset, the station will restart and perform a complete self-test process. Once no problem at startup is found, the station returns to normal operating state.

6 CONNECTIVITY

The charging stations can have connectivity via wireless data network (Wi-Fi), wired network (RJ45), cellular and RFID (Radio Frequency Identification).

NOTE!



Make sure the charging station model purchased has these functionalities. If necessary, compare the model described on the product identification label with the "smart code" informed in the WEMOB line catalog, available for download on the website: www.weg.net.

Smart remote management is carried out using the OCPP 1.6J open protocol, which allows charging stations to be connected to management platforms.

Through the WEMOB Management Platform it is possible to collect data and manage the charging stations remotely. The platform consists of the WEMOB Station Fleet Management, which enables registration, user management, usage management and charging for the use of charging stations, among other configurations.

User identification (authentication) is done through RFID cards or the WEMOB EV Drivers application. With the app, the user can access the location of the stations on the map, get real-time status of connectors (free, busy, in maintenance), statistics and usage history.

The WEMOB STATION is also compatible with third-party management platforms.

NOTE!



- Access to recharging stations other than domestic ones through the app is an optional item, included in the WEMOB® Management Platform service contract. For more information, please contact your regional sales representative.

To download the WEMOB EV Drivers app, go to the Google Play app store or the App Store of your smartphone menu. Type WEMOB EV Drivers in the search field or scan the QR Code below for download.





6.1 COMMISSIONING

The charging station is commissioned through web pages implemented in the station firmware. To that end, the station generates an "access point", which is a Wi-Fi network named WEG-EVSE-xxx, so that another device (smartphone, tablet, computer, notebook etc.) can access the station settings.

NOTE!

- The real name of the WEG-EVSE-xxx network is individual and varies by device, where xxx represents an alphanumeric combination;
- The “access point” generated by the charging station remains active for ten (10) minutes after the station is powered up. After this time, it is necessary to restart the station;
- Some devices may not be compatible with the "access point" generated by the station; if this occurs, use another device (another brand or model).

To commission the charging station, follow the instructions below:

1. Power up the charging station;
2. Connect your computer or mobile device to the WEG-EVSE-xxx Wi-Fi network. If you are using a computer or notebook with a Windows® operating system, left click the network icon ( or ) on the lower right corner of the taskbar. The representation of these icons varies depending on the Windows® version installed. The all available wireless networks in your area will be displayed. Click on the network identified by the SSID (identification name) as WEG-EVSE-xxx and then click on "Connect". In the next window, enter the password "password";

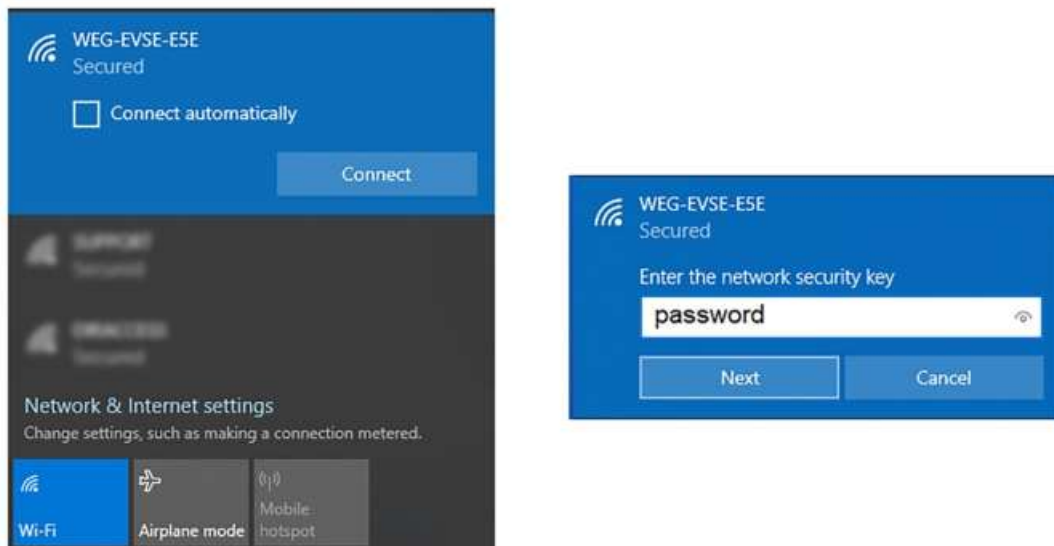


Figure 18: WEG-EVSE-xxx Wi-Fi Network

NOTE!

- If you want to perform the configuration using a mobile device (smartphone, tablet, etc.), we recommend deactivating the mobile data network (3G/4G etc.). To perform this procedure, it is recommended to be at a maximum distance of 1.5 m from the charging station;
- If you are using a computer or notebook, disconnect the Ethernet network cable if one is connected, and then turn on the Wi-Fi network card.

3. When connecting, a window will pop up to perform the configuration. If the window will not pop up, open your internet browser (we recommend using the latest versions of Google Chrome®, Mozilla Firefox® or Microsoft Edge®) and go to <http://setup.com> or <http://10.10.10.1> ;

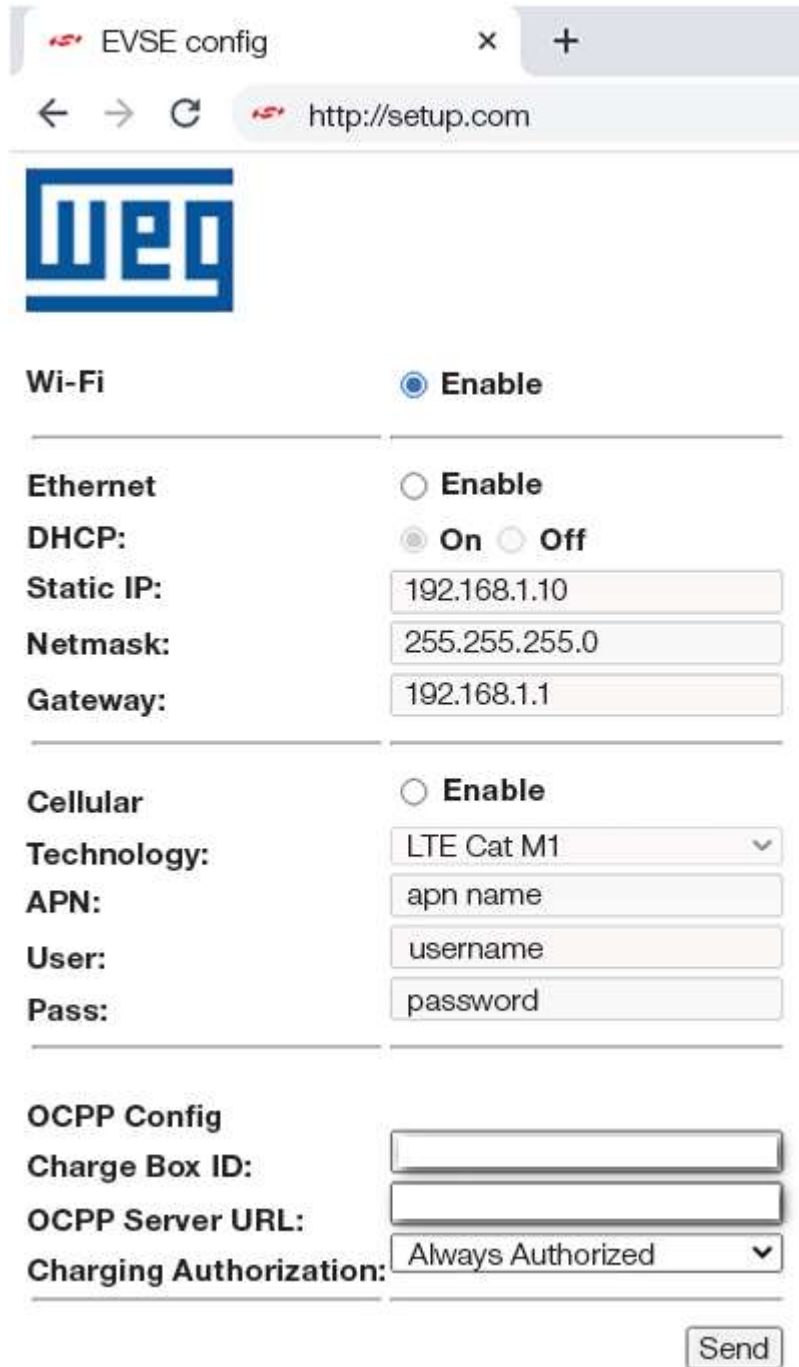


Figure 19: Station configuration page via web browser

4. Fill in the following fields:

Wi-Fi:

- Enables or disables the Wi-Fi network interface.

Ethernet:

- Enable: enables or disables the wired Ethernet network interface (RJ45).

- **DHCP:**
On: the station obtains an IP address automatically.
Off: settings are configured manually.
Static IP: The user manually assigns the IP address.
Netmask: netmask by default 255.255.255.0.
Gateway: this is normally the IP address of the router.

Ethernet	<input type="radio"/> Enable
DHCP:	<input checked="" type="radio"/> On <input type="radio"/> Off
Static IP:	<input type="text" value="192.168.1.10"/>
Netmask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.1"/>

Cellular:

- **Enable:** enables or disables the cellular interface network;
- **Technology:** allows you to select between LTE Cat M1 or LTE Cat NB1 (NB IoT) networks. These protocols are variants of 4G, but they are narrowband.

Next, it is possible to configure the APN (Access Point Name), the user (User) and the password (Pass) of the cellular interface.

Cellular	<input checked="" type="radio"/> Enable
Technology:	<input type="text" value="LTE Cat M1"/>
APN:	<input type="text" value="LTE Cat M1"/>
User:	<input type="text" value="username"/>
Pass:	<input type="text" value="password"/>

**NOTE!**

Check with your cellular operator for APN, username and password settings.

OCPP Config:

- **Charge Box ID:** Text field for identifying the station on the OCPP server.

**NOTE!**

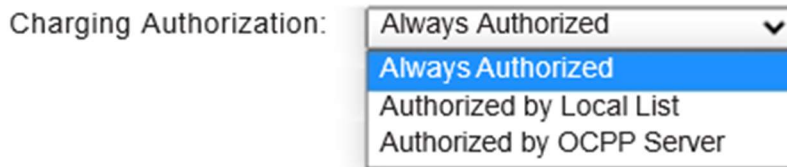
- This field is already filled in at the factory, its edition is not recommended as it is a unique identifier. Editing this field may pose risks to data security, which is not covered by the product warranty;
- Spaces and special characters are not allowed;
- Can be used: _ (underscore) and - (hyphen);
- There is a distinction between uppercase and lowercase letters.

- **OCPP Server URL:** Text field for WEG or third party OCPP server address.
Example for WEG Server: ws://ocpp.weg.net/ocpp/chargebox

- **Charging Authorization:** it defines whether the charging station requires authentication to start charging.

Three (3) authorization modes are available:

- Always Authorized: Allows charging without authentication. Select it to allow free access to charges;
- Authorized by Local List: The users are identified (authenticated) through RFID cards registered in the "Local List". Such list is managed by the station and has no integration with the OCPP server;
- Authorized by OCPP Server: Authorization is provided by the OCPP server. In this authorization mode, users and their RFID cards must be registered on the WEMOB platform.



NOTE!



- The Always Authorized and Authorized by Local List options can operate offline without connection to data networks or OCPP server;
- In the Authorized by OCPP Server option, no verification is done with the RFID cards stored in the "Local List", and the charging station depends on the connection to the data network and to the OCPP server. See the WEMOB EV Driver and WEMOB Fleet Station guide for more information about the platform.

When you press the "Send" button, the message "User configuration completed successfully!" will be displayed. By pressing "OK" the user will be directed to the Wi-Fi network configuration page.

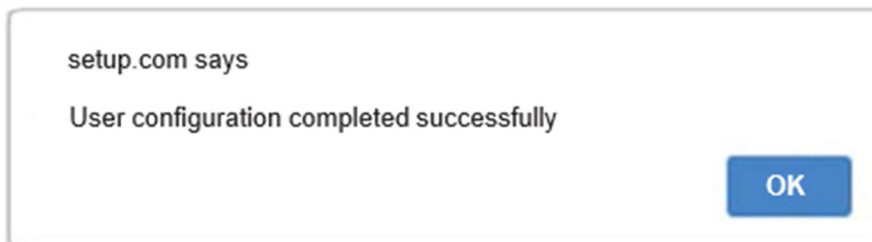


Figure 20: Setup completed



NOTE!

- If the Wi-Fi interface has not been enabled, commissioning will end.

5. On the Wi-Fi network configuration page, select the network you want to connect to, in this example, the SUPPORT Wi-Fi network. On this configuration page, you can check all the Wi-Fi networks near the station and the signal level. Enter the network password in "Password"—it is not necessary to select "Reconnect to device". If necessary, in "Advanced Settings", you can configure

the IP address of the network. "DHCP": the station obtains an IP address automatically, "Static": IP address manually assigned by the user. These fields must be filled in as presented in the previous item "Ethernet";

To finish, click on "Connect". If the connection is successful, a message will be displayed saying "Setup is complete".

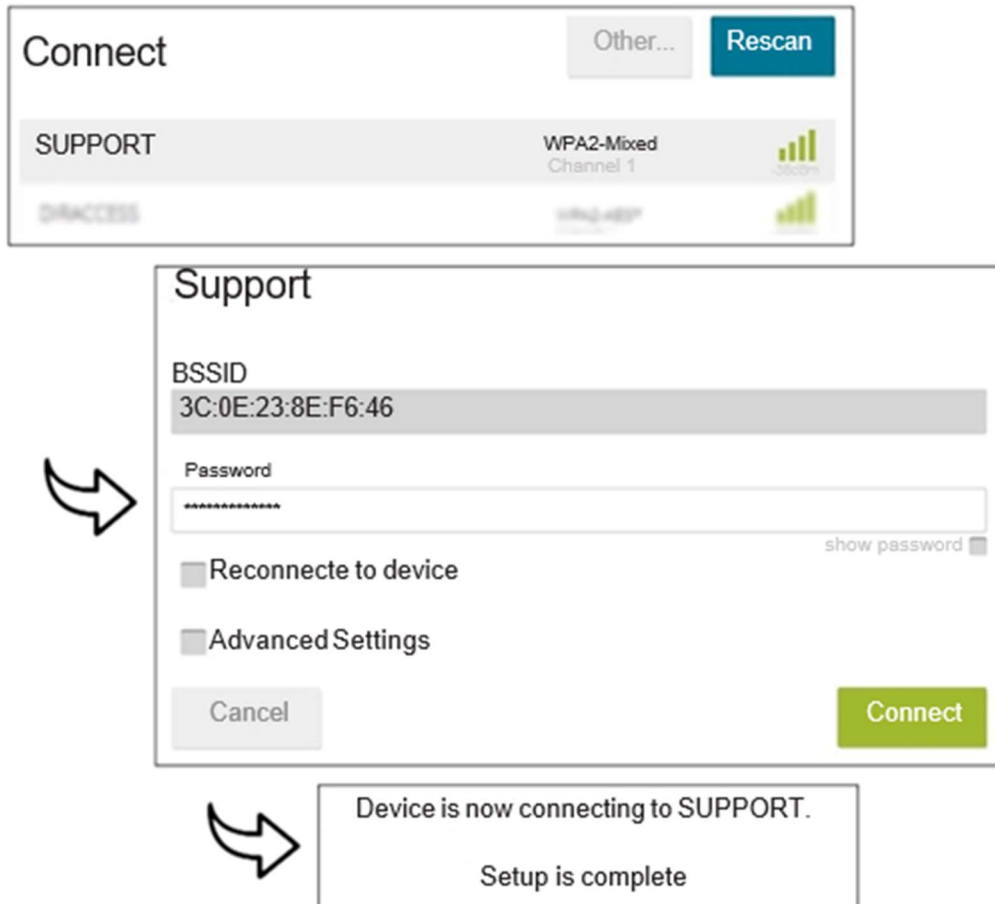


Figure 21: Wi-Fi network configuration page via web browser

The MAC address (Media Access Control Address) of the station is represented by the BSSID (Basic Service Set Identifier), unique identifier for each wireless device.

NOTE!

- On some access points the password verification may fail, and the message "Failed to verify network password" will be displayed. If you are sure that the entered password is correct, just click on "Save & Continue";
- The "Reconnect to device" option can remain unselected.

6. In case of error, restart the station and repeat the configuration procedure.

NOTE!

- Whenever the name or password of the Wi-Fi network of your main router changes, you will need to reconfigure the charging station.

You can change the Wi-Fi connection and connect the station to another network in two ways: via the station current IP or by resetting the Wi-Fi settings.

Repeat procedures 5 and 6. In procedure 5, use the current IP address of the charging station. To that end, it is necessary to know the IP address of the station, for example: 192.168.100.55.

6.2 WI-FI NETWORK

The charging station needs to be installed in a location with a good level of Wi-Fi signal. If necessary, install repeaters or a wireless "access point" (the router connects to another router via cable, and the second device acts as a repeater). You can check the Wi-Fi network signal strength using a smartphone or another device, checking if you have full bars on the device. The higher the level, the better the Wi-Fi network signal. They will indicate if the Wi-Fi signal is good in the chosen environment. The charging station has an external antenna to better capture the Wi-Fi network signal.

If it is the first configuration of the station on the Wi-Fi network, the station generates an "access point", a Wi-Fi network identified as WEG-EVSE-xxx, so that another device (smartphone, tablet, computer etc.) can access the station Wi-Fi network settings.

NOTE!



- The charging station connects only to Wi-Fi networks IEEE 802.11 b/g/n, 2.4 GHz, with WPA2/WPA Personal security protocols, which are networks that only require access password without the need for user and password;
- If the registered Wi-Fi network is not available during energization or during operation of the charging station, it will automatically reconnect as soon as the Wi-Fi network is available again.

6.3 ETHERNET

NOTE!



- Some models of charging stations have an RJ45 connector at the bottom for connection to the Ethernet network. Check if the purchased station model has this connector;
- The charging stations are not prepared to work in networks that require user and password authentication (proxy).

The RJ45 connector follows the Fast Ethernet 100BASE-TX standard, using two pairs of cables for data transmission and reception. Connect the cable from the router to the charging station at the RJ45 port. Use standard Ethernet cable, 100 Base-TX (Fast Ethernet), CAT 5e or higher, with a maximum length of 100 m. To avoid interference in communication, the power cables must be separated, as far as possible, from the ethernet communication cable. Pass the RJ45 ethernet cable through the duct located at the base of the station through the metal structure to the RJ45 connector available on the electronic control board.

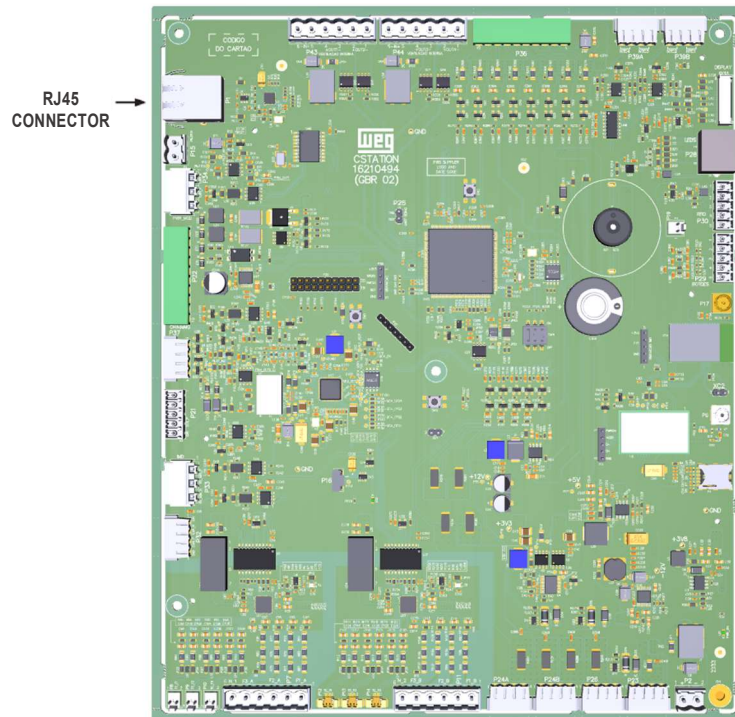


Figure 22: Location of the RJ45 connector on the electronic control board

6.4 CELLULAR

The charging station needs to be installed in a location with a strong cellular signal. You can check the signal strength using a cell. Check if you have full bars on the device. The higher the level, the better the cellular network signal. They will indicate if the signal of the cellular network is good in the environment chosen.

The charging station has an external high-gain antenna and is compatible with LTE Cat M1 and NB IoT mobile networks, allowing the use of a SIM card with a data plan to connect the station when it is out of range of a Wi-Fi network or a wired Ethernet (RJ45) network.



NOTE!

This product works exclusively with SIM card in nano size (12.3 mm high × 8.8 mm wide). When hiring a data plan with a telephone operator, be aware of this detail.



ATTENTION!

Make sure the station is turned off before inserting or removing the SIM card. Otherwise, the station and/or SIM card may be damaged.

To install the charging station SIM card, follow the instructions below:

1. Open the charging station front door;
2. Find the SIM card slot in the central right part of the electronic control card;

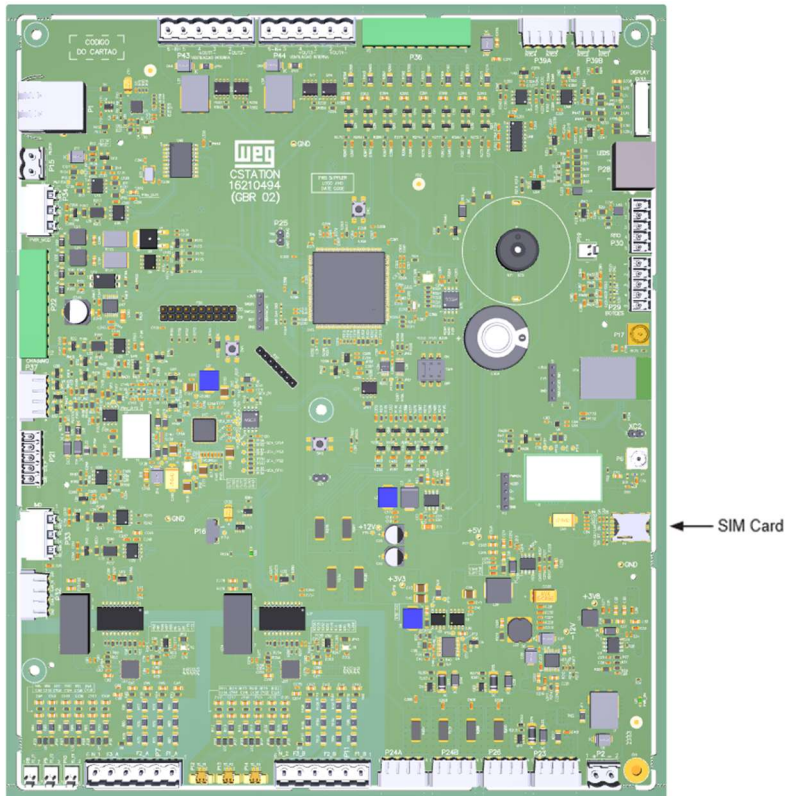


Figure 23: Location of the SIM card slot on the electronic control board

3. Align the SIM Card with the slot on the electronic control board. For the correct insertion, the beveled edge of the SIM card must be aligned to the right and the metal contacts face downwards. See the drawing guiding the SIM card assembly in the slot;
4. Carefully insert the SIM card, lightly press it with your index finger up to the end of the slot;

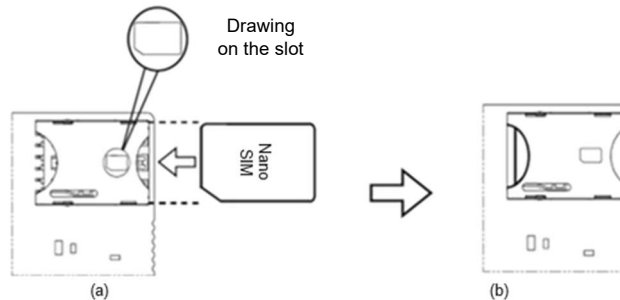


Figure 24: Procedure to insert the SIM card

5. Close the front door.

To remove the SIM Card from the charging station, follow the instructions below:

1. Open the charging station front door;
2. At the bottom of the SIM card slot is a semicircle. Use this opening to carefully remove the SIM card with your index finger;
3. Remove the SIM card;
4. Close the front door.

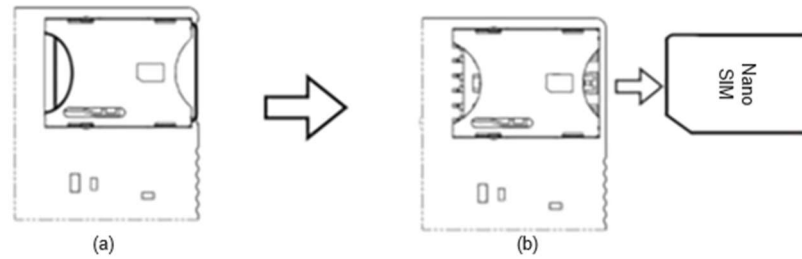


Figure 25: Procedure to remove the SIM card

6.5 RFID

The factory setting of the WEMOB-STATION charging station does not require authentication, with free access for charging in the "Always Authorized" operating mode.

To require authentication, this setting must be changed according to Section 6.1 COMMISSIONING on page 26. In the OCPP Config field, select the "Authorized by Local List" mode in Charging Authorization. Each RFID card has a unique identification number (ID) pre-recorded at the factory.

The charging station is compatible with RFID cards/tags with operating frequency of 13.56 MHz, RF interface ISO/IEC 14443 A.

The RFID cards can be registered locally or through the OCPP server.

To register cards locally, one card will be added to the Local List as "Master" administrator and the others as "User". The "Master" card is used to manage (add/delete) "User" cards.

NOTE!



- During the card registration procedure, it is not allowed to start or stop a charging process using the RFID card;
- The procedure for adding or excluding cards must be done with the station in the "Available" mode;
- RFID cards are supplied in packs with ten (10) units. Material 15759624 – WEMOB-RFID;
- Identify the "Master" card with a label or permanent marker. Do not perforate the card.

6.5.1 Registration of the "Master" RFID Card

When the charging station is turned on, it verifies whether a "Master" card is already registered. If not, the RFID LED will flash for approximately one minute, waiting for the first RFID reader card to approach, which will be considered the "Master" card. After this period, if no card comes near, the station starts its normal operation without the RFID Local List functionality (authorization via OCPP only). After this period, the station must be restarted (rebooted) to enter the registration mode again.

To locally register the "Master" card, follow the instructions below.

1. Power up the charging station, and the RFID reader LED will flash green for one minute;
2. Bring the "Master" card close to the RFID reader;
3. If the registration is successful, the station will emit 1 (one) short beep and the RFID reader LED will change to solid green;
4. If 1 (one) minute has elapsed, restart the station and repeat the procedure.

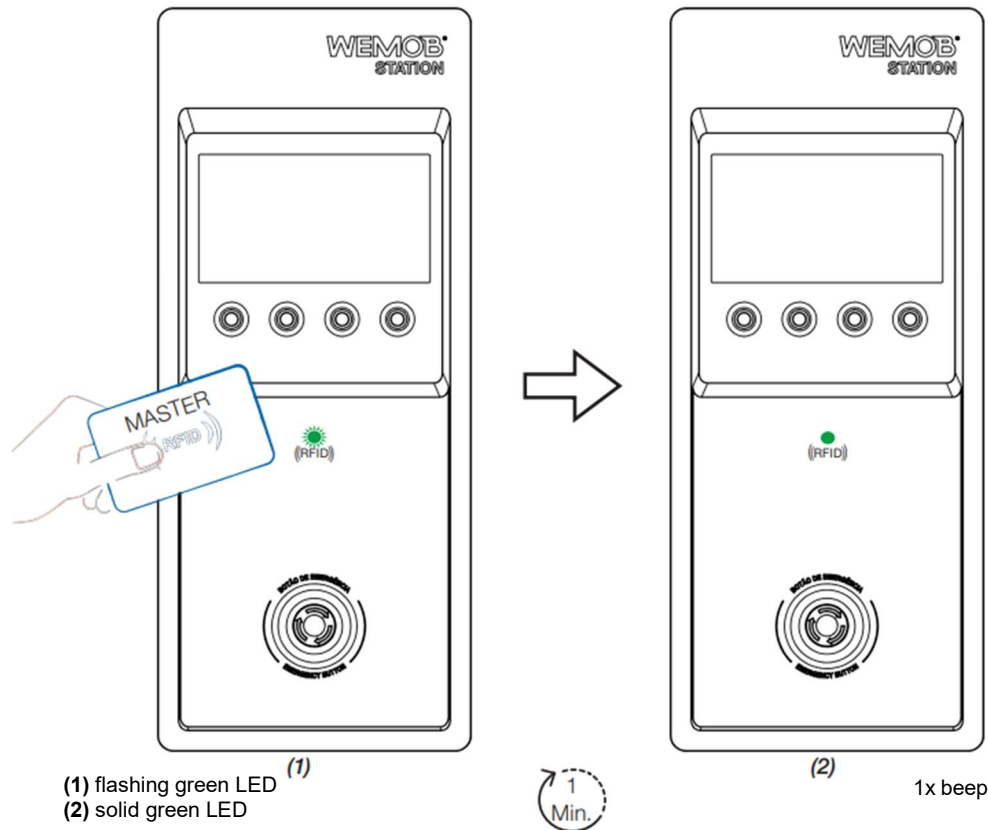


Figure 26: Registration of the RFID "Master" Card

NOTE!



- Only one "Master" card can be registered;
- The "Master" card cannot be used to complete a charging procedure;
- In case of loss of the "Master" card, a Factory Reset must be performed. More information in Section 6.6 FACTORY RESET on page 37.

6.5.2 Registration/Exclusion of the "User" RFID Card

After registering the "Master" card, it is possible to add or delete "User" RFID cards. To register "User" cards, first the "Master" card must be brought close to the RFID reader, and then the station will enter the "User" card registration mode. During this process, the RFID reader LED will flash green for one minute, waiting for the "User" card to approach.

To locally register the "User" card, follow the instructions below.

1. Power up the charging station, and the RFID reader LED will turn on solid green indicating that there is a "Master" card registered in the Local List;
2. Bring the "Master" card close to the RFID reader. The station will emit 1 (one) short beep, and the RFID reader LED will flash green for 1 (one) minute;
3. Bring the "User" card close to the RFID reader;
4. If the registration of the "User" card is successful, the station will emit 1 (one) short beep, and the RFID reader LED will turn solid green;
5. To register other "User" cards, repeat steps 2 to 4.

NOTE!



- Repeat steps 2 to 4 to register new "User" cards. The sequence "Master" -> "User1" -> "User2"... is not valid. For each new "User" card, repeat the procedure mentioned in the steps above.

To exclude a "User" card from the Local List, the procedure is the same as for inclusion—just repeat the previous steps. If the card is already registered in the Local List, it will be deleted. If the exclusion is successful, the station will emit 2 (two) short beeps, and the RFID reader LED will change to solid green.

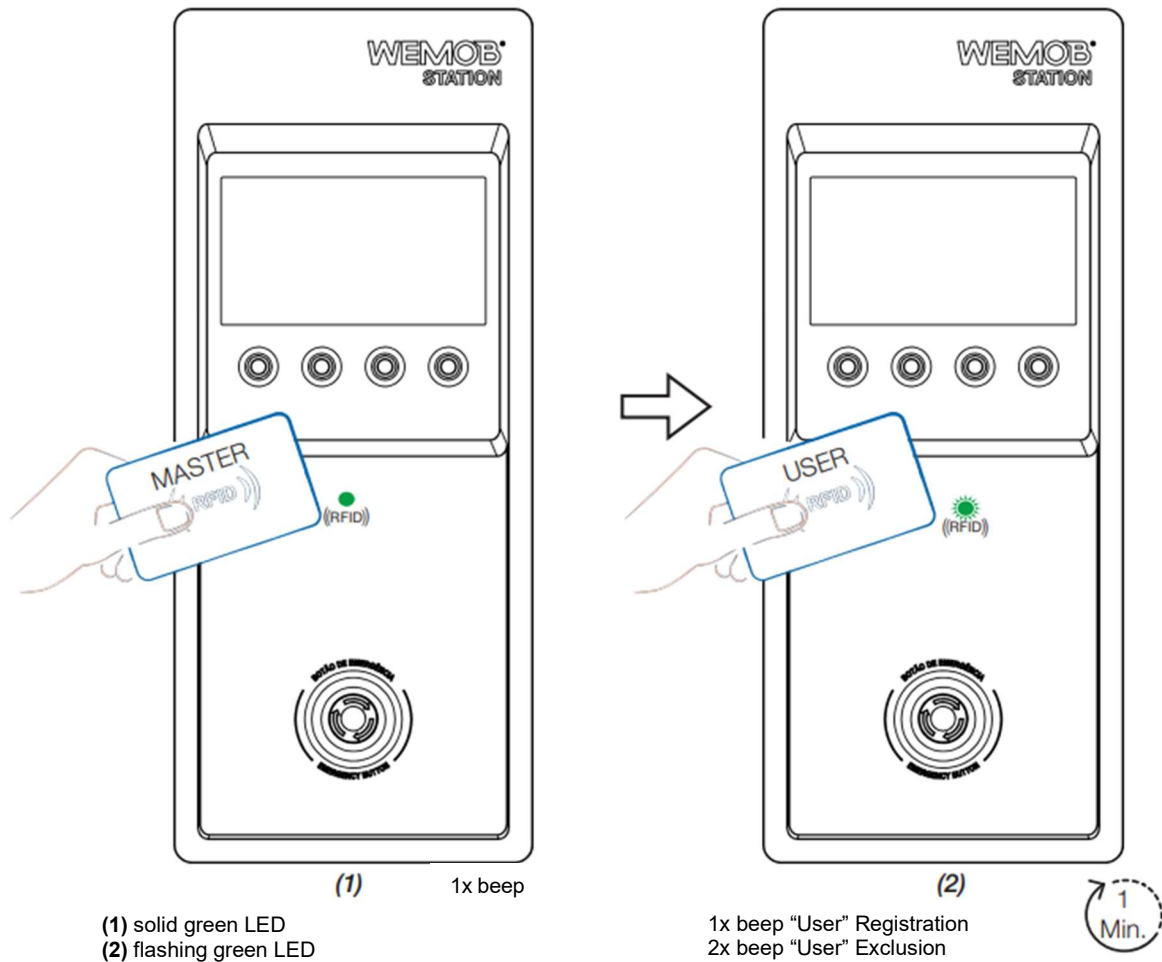


Figure 27: Registration/Exclusion of the "User" RFID card

NOTE!



- The charging station allows the registration of up to 100 (one hundred) "User" RFID cards;
- The station will emit a long beep when an unregistered card approaches the RFID reader.

6.6 FACTORY RESET

If you need to perform a factory reset, change the commissioning settings or delete the Local List of RFID cards (it must be done with the front door open, and the station powered). Find the "SW2 - RESET" button in the central part of the electronic board and keep it pressed for:

- Three seconds (3 s) to delete all commissioning settings and the RFID "Master" card. After this period, the station will emit 1 (one) short beep. Release the button and wait for the station to restart;
- Five seconds (5 s) to delete all commissioning settings and Local List of cards ("User" and "Master"). After this period, the station will emit 2 (two) short beeps. Release the button and wait for the station to restart.

**DANGER!**

Do not touch live components or parts during the Factory Reset procedure. Use an insulating material such as a plastic pen to press the "SW2 - RESET" pushbutton safely.

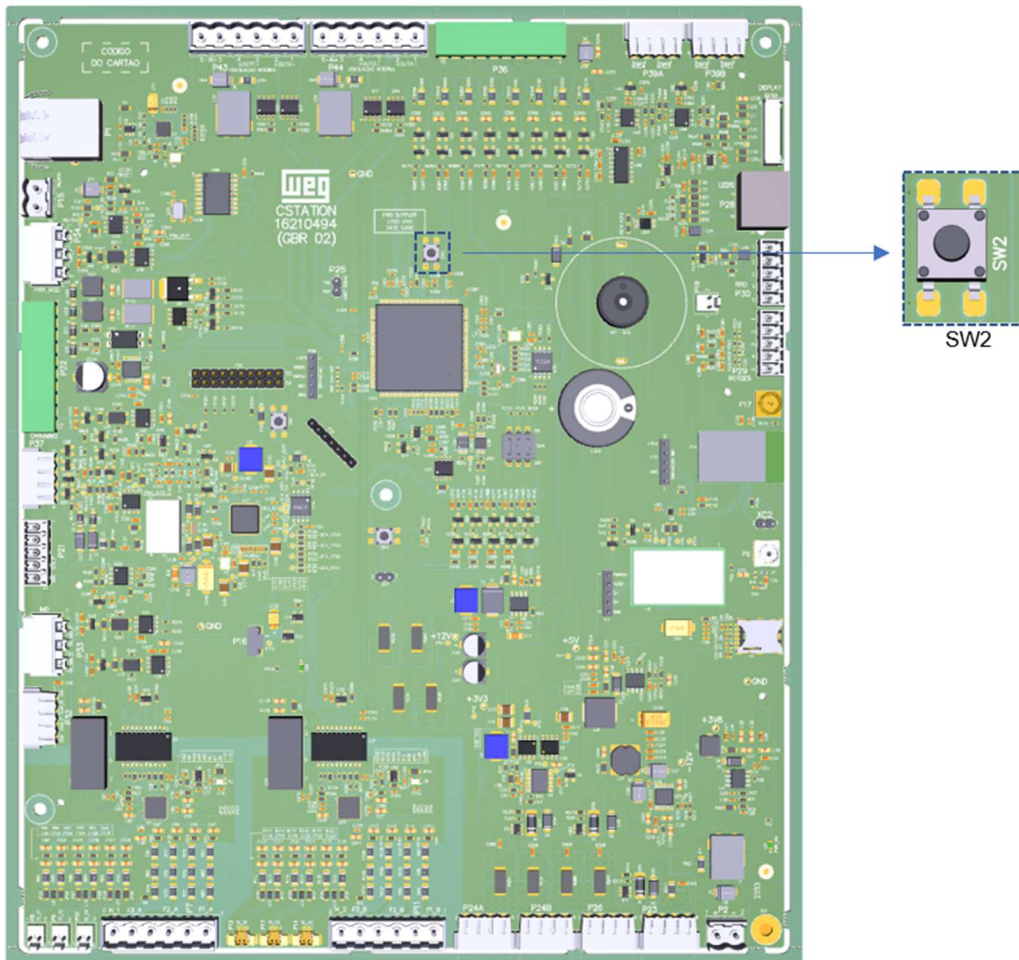


Figure 28: Location of the "SW2 - RESET" pushbutton on the electronic card

6.7 FIRMWARE UPDATE

The market for electric chargers is recent and is constantly evolving. Firmware updates are periodically released to add functionalities and improve the performance of your charging station. Updates keep your charging station at the forefront and allow it to keep up with the latest market developments. Update the charging station with the latest firmware and benefit from additional features.

The update is done remotely using Firmware Over The Air (FOTA) technology, through the "Firmware Update" command via OCPP. The process of downloading these updates wirelessly usually takes between three and ten minutes, depending on your connection speed and the size of the update. It is only possible to download the latest firmware version and not to go back to an old version.

Files are available at: <http://updates.weg.net/chargingstation>

**ATTENTION!**

Point at the firmware directory (URI) corresponding to the purchased charging station model, at the risk of damaging the charging station.

6.8 CONNECTIVITY INDICATION

On the upper right corner of the WEMOB-STATION display, an icon of the network connection is shown. The icon indicates the signal strength (Wi-Fi and cellular networks), if the station is commissioned, if it is connected to an OCPP server etc.

- Non-commissioned station:



- Station commissioned but no Wi-Fi, cellular, or ethernet connectivity:



- Stations commissioned, with connectivity, but no connection to an OCPP server (characterized by the exclamation point):



- Station commissioned, with connectivity and connection to an OCPP server:



7 OPERATION

After completing the mechanical and electrical installation, the WEMOB-STATION is ready to start operating by setting the “Q1” circuit breaker.

When the charging station is energized, the display shows an opening video, and the status LEDs of the connectors will light solid GREEN, indicating that the station is ready to start charging.

NOTE!



- Check that the emergency pushbutton is not activated;
- The emergency button must not be used as an option to end a charging procedure or to stop another user from charging.

The WEMOB-STATION charging station features a 10.1” color display that provides a user-friendly interface with detailed instructions and information to start and stop a charging process, including information about charging in progress, charging time and battery charge level, allowing the operation of the charging station in an easy and intuitive way.

The station has three (3) charging authorization modes available, configured in Section 6.1 COMMISSIONING on page 26.

- Always Authorized: Allows charging without authentication. Select it to allow free access to charges;
- Authorized by Local List: The users are identified (authenticated) through RFID cards registered in the “Local List”. Such list is managed by the station and has no integration with the OCPP server;
- Authorized by OCPP Server: Authorization is provided by the OCPP server. In this authorization mode, users and their RFID cards must be registered on the WEMOB platform.

7.1 "ALWAYS AUTHORIZED" OPERATING MODE

It allows charging without authentication (users have free access to charge vehicles). To charge the vehicle, just follow the instructions shown on the display—the instruction screens will appear successively.

NOTE!



- The CCS WEMOB-STATION charging station has only the CCS connector available.

NOTE!



- The screens in this manual use the 150 kW charging station as an example; therefore, consider the maximum power of the product purchased as 30 kW.

To start the charging process:

1. Select connector 2, direct current (DC) CCS type 2 charging connector. At this stage, the indication LEDs of the corresponding connector will light in solid GREEN;

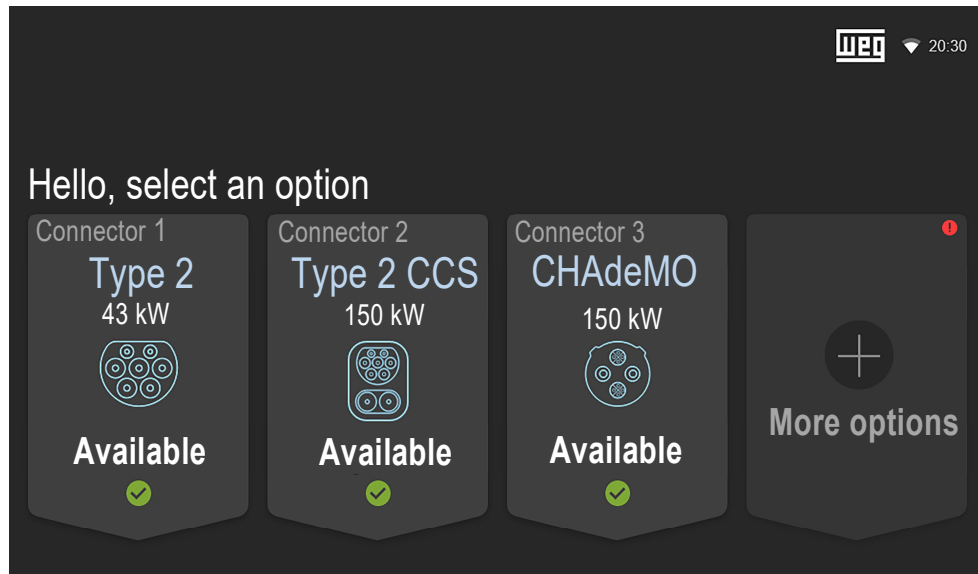


Figure 29: Home screen (example 150 kW)

2. Remove the plug from the charging station and plug it into the electric vehicle;

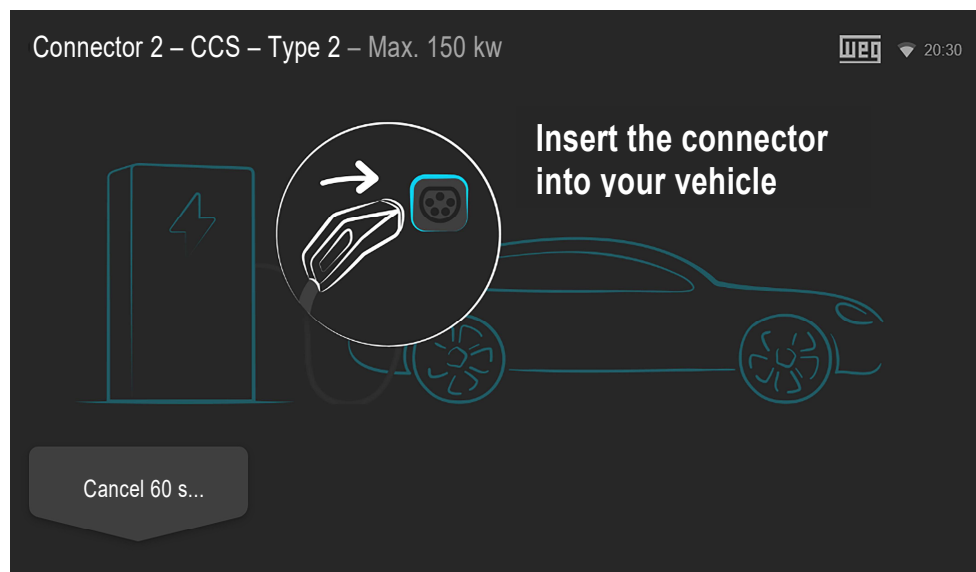


Figure 30: Instruction screen to "Insert the connector into your vehicle"

It is possible to cancel the process by pressing the "Cancel" button. If the connector is not inserted into the electric vehicle within 60 seconds (60 s), the process is automatically canceled, and the display returns to the home screen.

3. After the connection to the vehicle, the station begins a communication and safety testing process. The charging station will indicate it in solid 60 seconds (60 s) elapsed and the connection between the station and the vehicle is not established, the station will emit a long beep and return to the "available" mode, with a solid GREEN light indication;

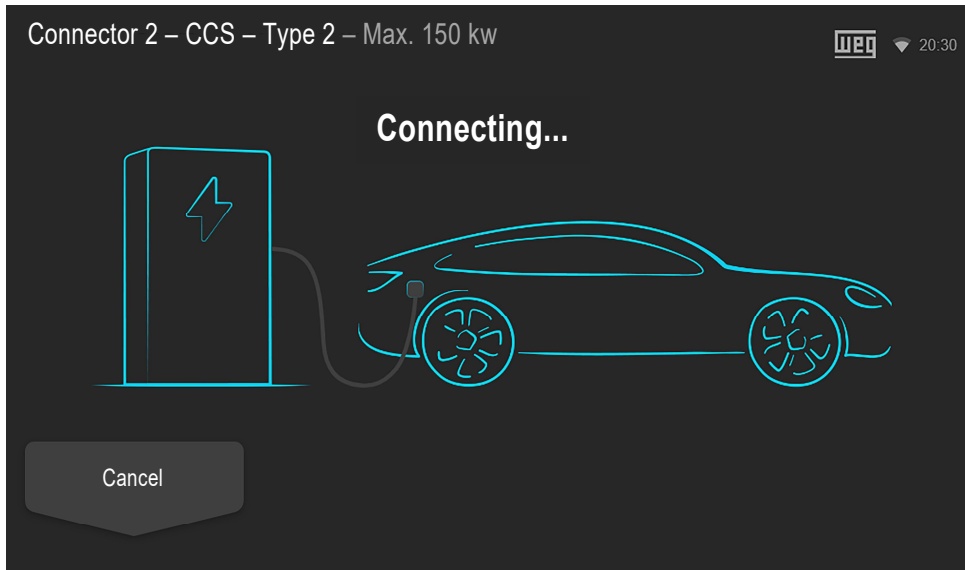


Figure 31: Screen indicating that the electric vehicle has been connected and is in the process of being recognized

It is possible to cancel the process by pressing the "Cancel" button.

4. Within a few seconds, if the connection is successful, the station will start charging the electric vehicle automatically, and the status indication LEDs of corresponding connector will light in solid BLUE. Detailed charging information is shown on the display;

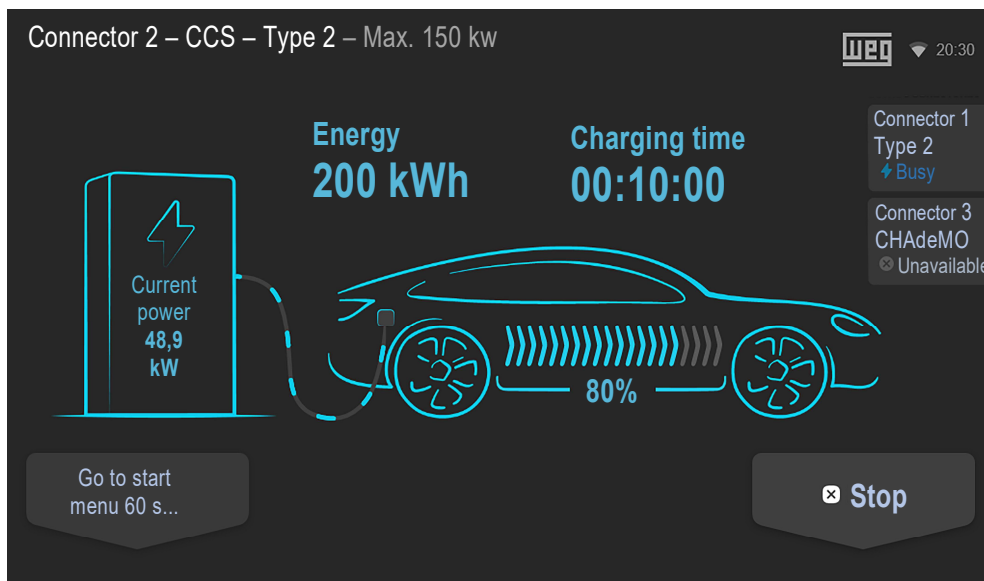


Figure 32: Screen with details on the charging in progress and "Stop" button

It is possible to go to the Home Menu by pressing the "Go to Home Menu" button or waiting for the screen to go automatically after 60 seconds (60 s). It is possible to end the charging process by pressing the "Stop" button at any time, whether the charging is complete or not.

5. To end the charging process, completed or not, in the "Always Authorized" operating mode, the ending is always done by the electric vehicle;

Complete charge: after the electric vehicle battery is fully charged, the charging station will keep the connector locked until the vehicle stops the charging process.

The station LED will be YELLOW, indicating that the charge is complete, and the user intervention is required. The home screen and charging details screen show the message "Completed" next to the selected connector.

User intervention: in this case, the charging process can be ended at any time through the "Stop" button on the screen with details of the charging in progress, or it must be ended through the vehicle. Each vehicle has its own method for ending the charging. For this method, we recommend reading the vehicle manual for the correct interruption of the process.

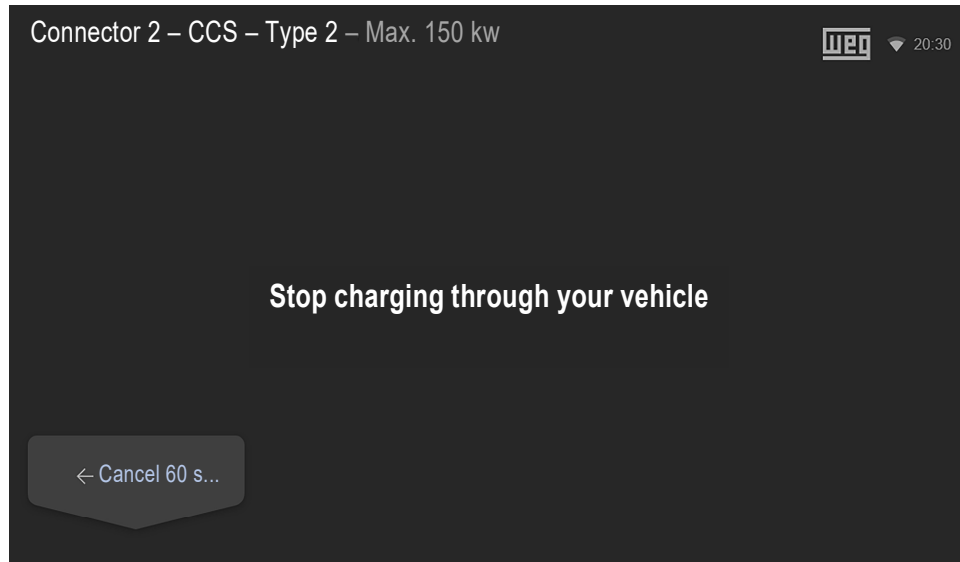



Figure 33: Screen telling you to finish charging the electric vehicle in the "Always Authorized" operating mode

After disconnecting the charging cable from the electric vehicle, the station will return to the start status, with solid GREEN indication. Available for the next charge.

	<p>NOTE!</p> <p>When the electric vehicle is completely charged, insert the plug into the socket located on the side of the station. Do not leave the charging cable on the floor.</p>
---	---

7.2 "AUTHORIZED BY LOCAL LIST OR OCPP SERVER" OPERATING MODE

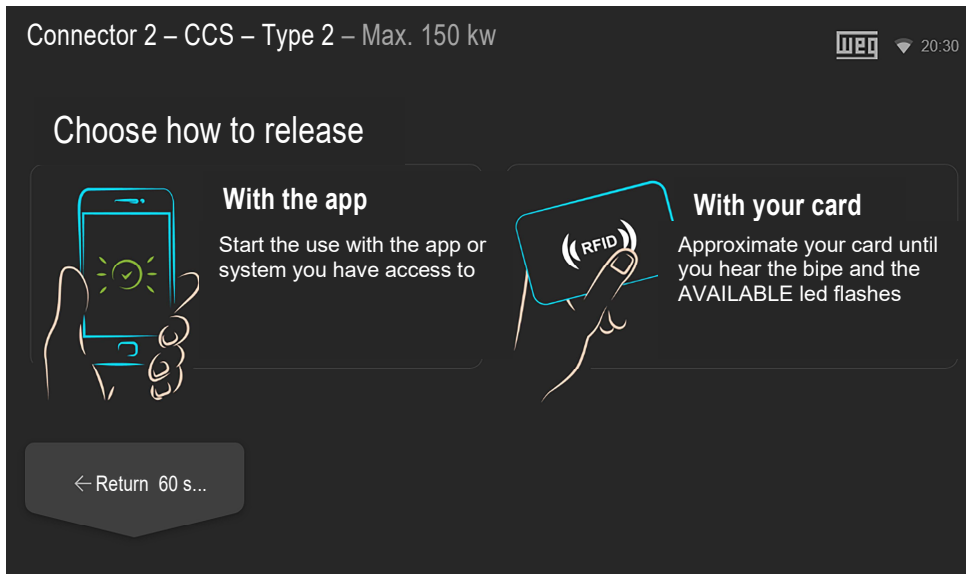


Figure 34: Screen to select the release method (example 150 kW)

1. If selected via app, the charging process must be released and ended by the app;

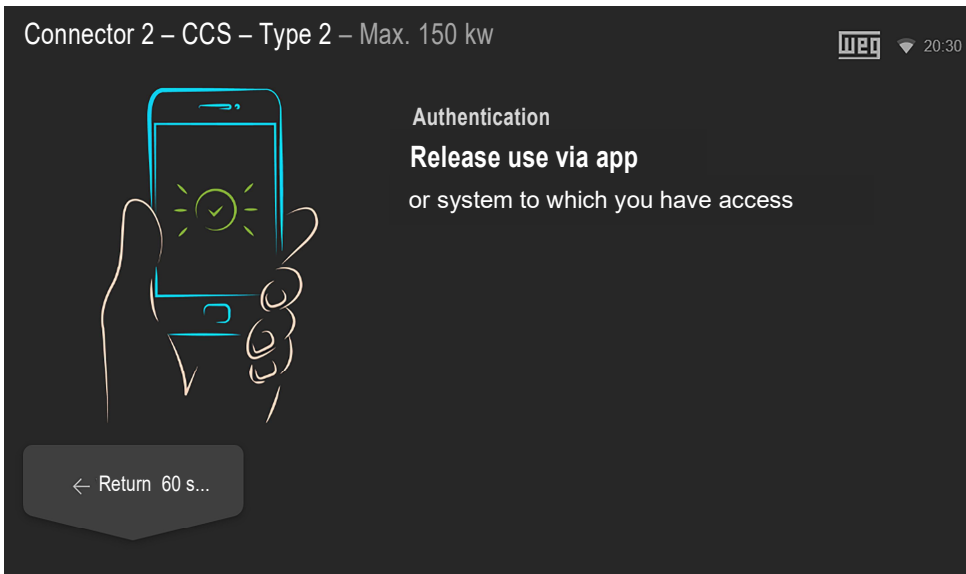


Figure 35: Charging release screen via app

If selected via RFID card, the charging must be released and ended using the RFID card.

Bring the "User" card close to the station RFID reader.

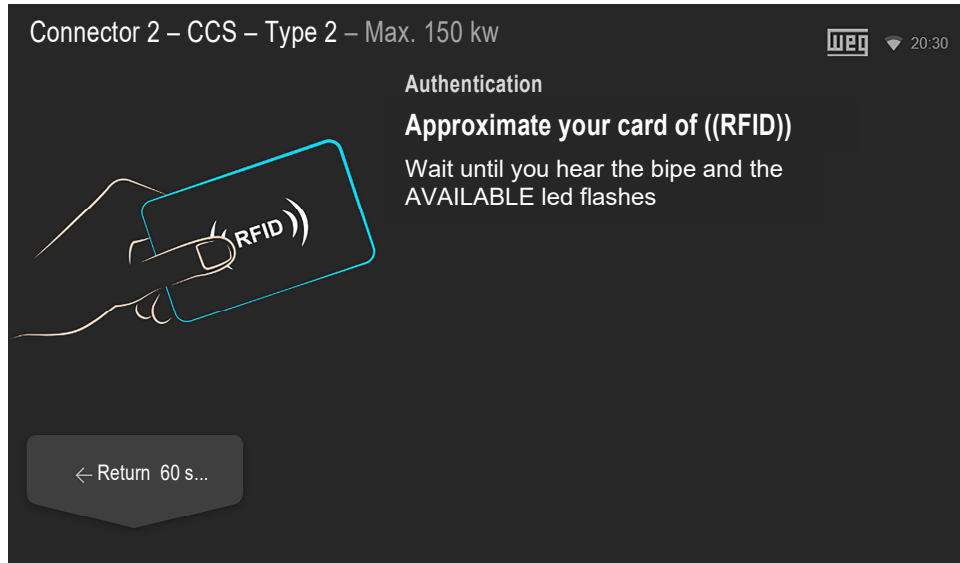


Figure 36: Screen with instructions for releasing the charging via RFID

If the card is not recognized, a new screen will be displayed for the user to try again or informing that the card was declined.

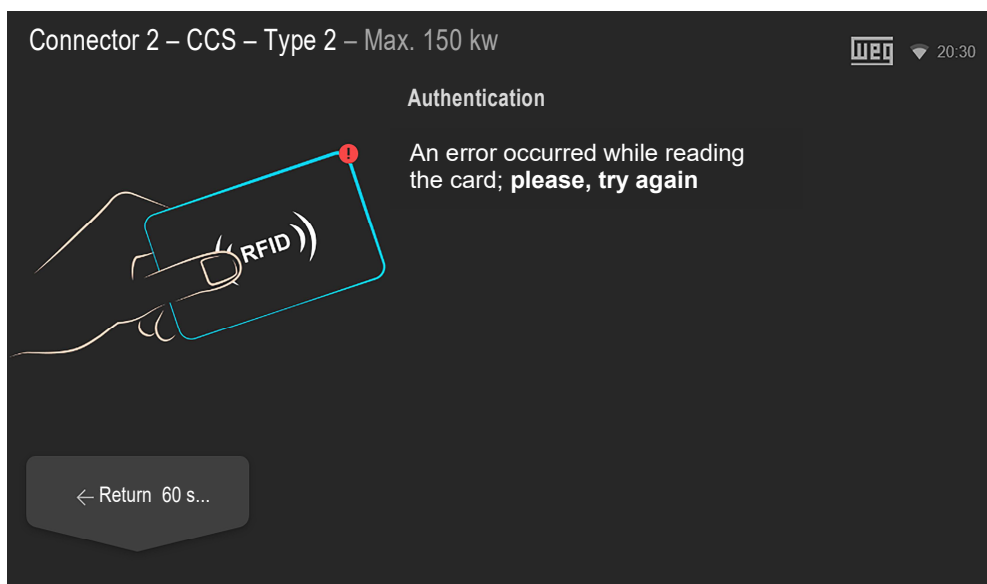


Figure 37: Screen indicating an error in the RFID card authentication

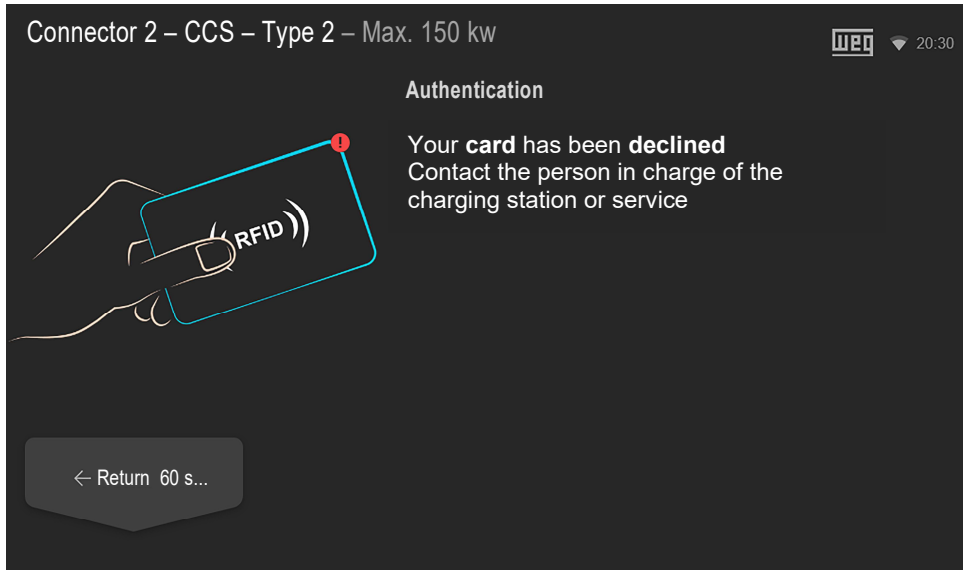


Figure 38: Screen indicating a problem in the RFID card authentication



NOTE!

The station will emit a long beep when an unregistered card approaches the RFID reader.

2. After confirming the user identification, the station "available" LED will flash GREEN for 60 seconds (60 s) to indicate that the charging has been authenticated;
3. Remove the plug from the charging station and plug it into the electric vehicle;

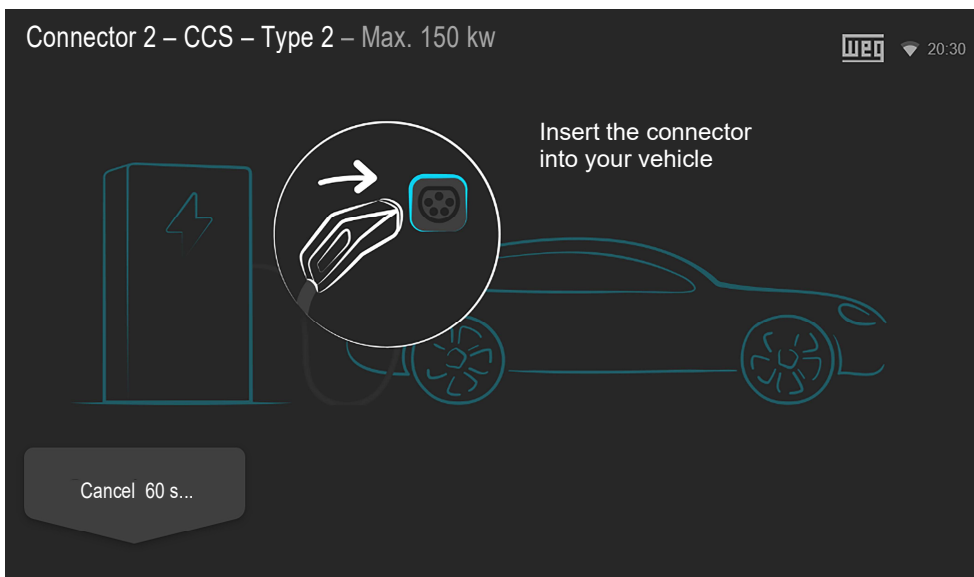


Figure 39: Instruction screen to "Insert the connector into your vehicle"

It is possible to cancel the process by pressing the "Cancel" button. If the connector is not inserted into the electric vehicle within 60 seconds (60 s), the process is automatically canceled, and the display returns to the home screen.

- After the connection to the vehicle, the station begins a communication and safety testing process. The charging station will indicate it in solid YELLOW. If 60 seconds (60 s) elapsed and the connection between the station and the vehicle is not established, the station will emit a long beep and return to the "available" mode, with a solid GREEN light indication;

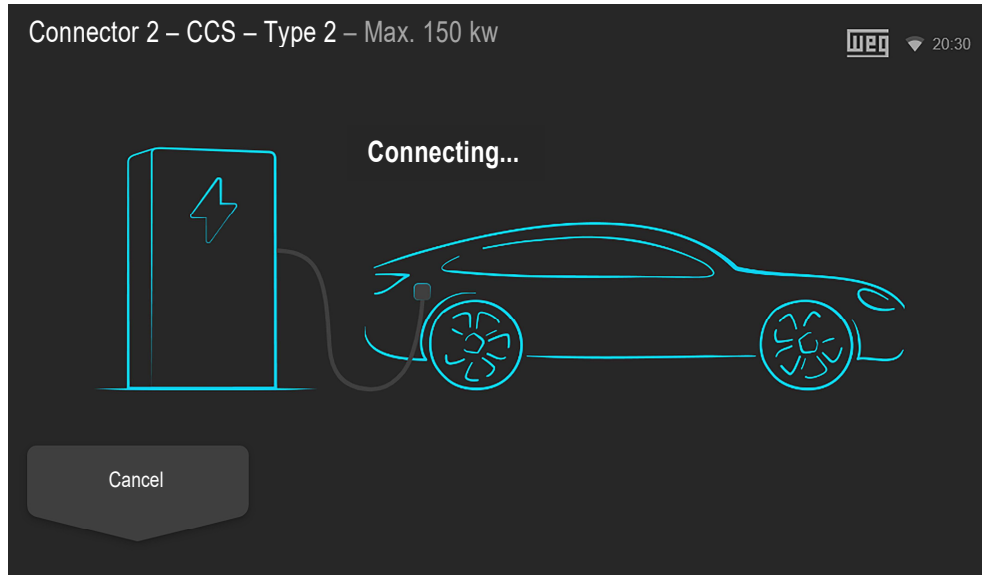


Figure 40: Screen indicating that the electric vehicle has been connected and is in the process of being recognized

It is possible to cancel the process by pressing the "Cancel" button.

- Within a few seconds, if the connection is successful, the station will start charging the electric vehicle automatically, and the status indication LEDs of corresponding connector will light in solid BLUE. Detailed charging information is shown on the display;

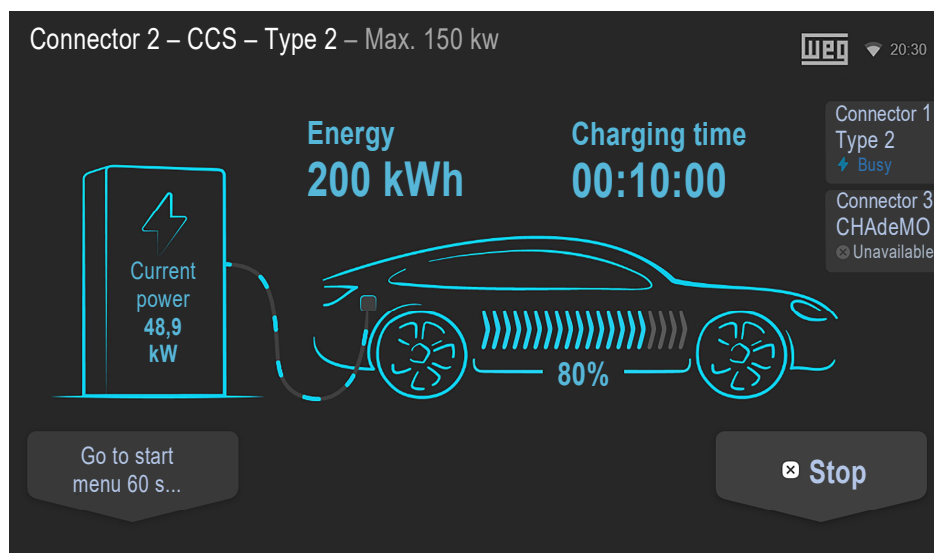


Figure 41: Screen with details on the charging in progress and "Stop" button

It is possible to go to the Home Menu by pressing the "Go to Home Menu" button or waiting for the screen to go automatically after 60 seconds (60 s). It is possible to end the charging process by pressing the "Stop" button at any time, whether the charging is complete or not.

- To end a charging process, completed or not, end it using the electric vehicle, app or RFID card, according to the selected authentication method;

Complete charge: after the electric vehicle battery is fully charged, the charging station will keep the connector locked until the vehicle stops the charging process.

The station LED will be YELLOW, indicating that the charge is complete, and the user intervention is required. The home screen and charging details screen show the message "Completed" next to the selected connector.

User intervention: in this case, the charging process can be ended at any time through the "Stop" button on the screen with details of the charging in progress, or it must be ended through the vehicle. Each vehicle has its own method for ending the charging. For this method, we recommend reading the vehicle manual for the correct interruption of the process.

Press the "Stop" button, then, if selected via application, the charging process must be ended through the application.

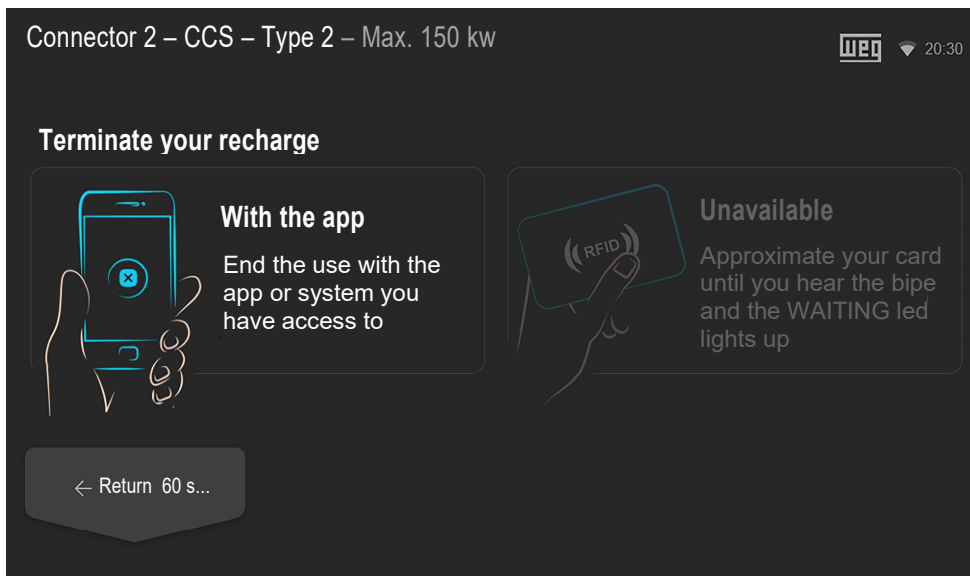


Figure 42: End of charging process via app screen

If selected via RFID card, the charging process must be ended using the RFID card. Bring the "User" card close to the station RFID reader.

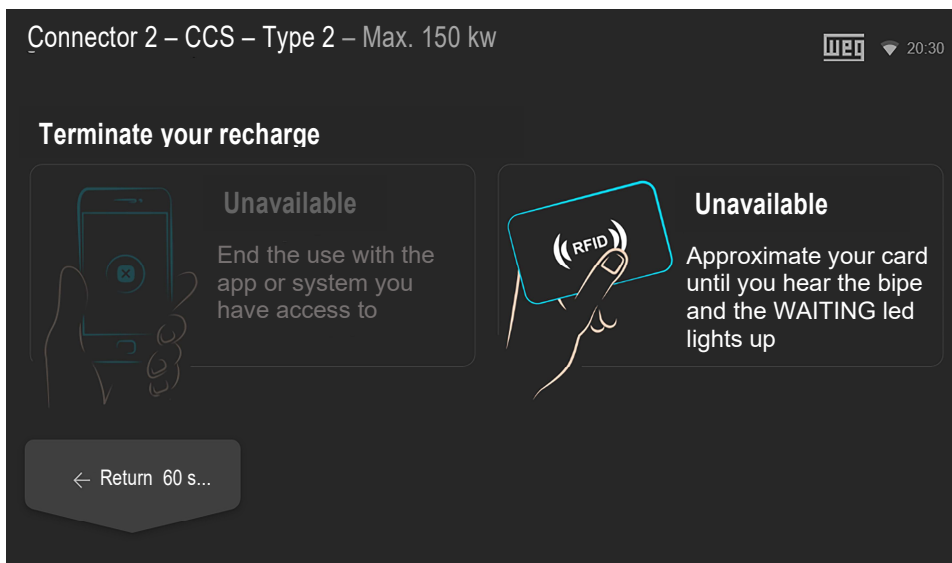


Figure 43: End of charging process via RFID card screen

After disconnecting the charging cable from the electric vehicle, the station will return to the start status, with solid GREEN indication. The connector will be available for the next charging process.


NOTE!

When the electric vehicle is completely charged, insert the plug into the socket located on the side of the station. Do not leave the charging cable on the floor.

7.3 CHARGING DETAILS

The following images show detailed information on the direct current (DC) charging process using the CCS-2 connector.

7.3.1 Charging in Progress

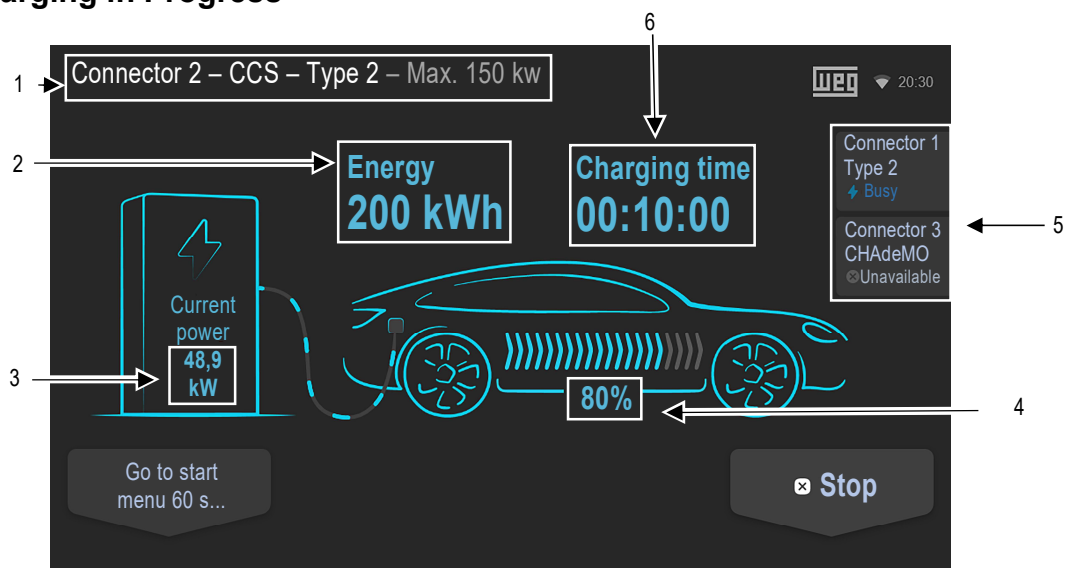


Figure 44: Screen with details of the charging in progress (example 150 kW)

- 1 - Displays data of the charging in progress on the selected connector. In this example, connector 2, CCS Type 2 direct current (DC) charging connector, whose maximum power supplied is 60 kW;
- 2 - Displays the energy supplied to the vehicle so far, in kWh;
- 3 - Displays the present power supplied to the vehicle, in kW;
- 4 - Displays the percentage level of battery charge;
- 5 - Displays information on the other connectors (not available for the CCS only model);
- 6 - Displays the elapsed charging time.

7.3.2 Fully Charged

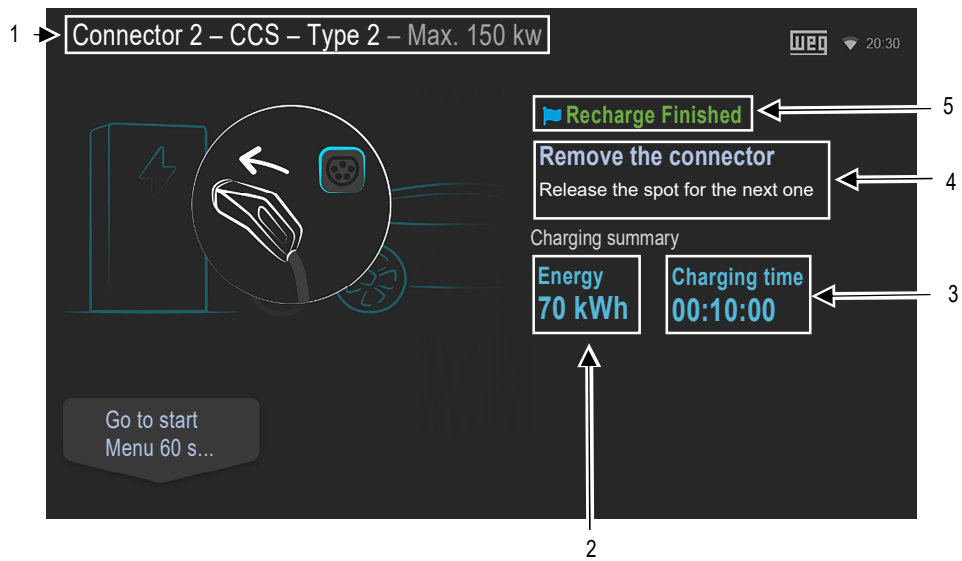


Figure 45: Screen with details of a completed charge

- 1 - Displays data of the completed charge on the selected connector. In this example, the CCS type 2 direct current (DC) charging connector, whose maximum supplied power is 150 kW;
- 2 - Displays the energy supplied to the vehicle in kWh;
- 3 - Displays the elapsed charging time;
- 4 - Instructions on the screen for the user to remove the connector and release the space for the next user;
- 5 - Indicated that the charge has been completed.

7.3.3 Error When Charging

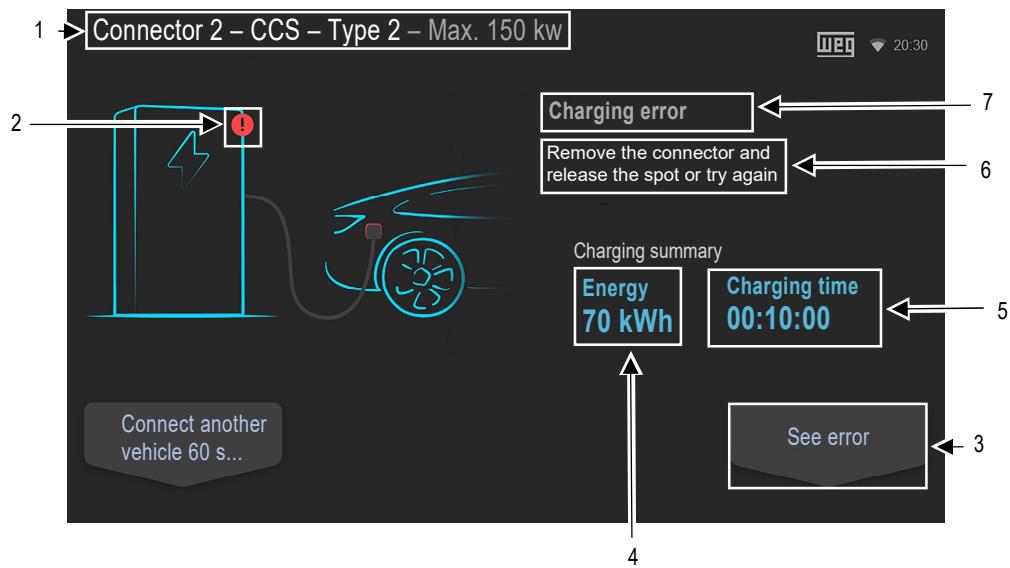


Figure 46: Screen with details on a charging process interrupted due to an error

- 1 - Displays data on the charge with error on the selected connector. In this example, connector 2, CCS Type 2 direct current (DC) charging connector, whose maximum power supplied is 150 kW;
- 2 - Indicates that there is an error in the station;
- 3 - Displays a new window with the error details;
- 4 - Displays the energy supplied to the vehicle in kWh;
- 5 - Displays the elapsed charging time;
- 6 - Instructions on the screen for the user to remove the connector and release the space for the next user;
- 7 - Indicates that the charging process has ended due to an error.

Clicking on "View Error" displays a screen with the error history, showing date and time, error code, simplified description of the error and status and if the error is active or has already been solved.

7.4 CONNECTOR STATUS

The display shows status symbols over the images of each connector.



NOTE!

The CCS WEMOB-STATION charging station has only the CCS connector available.

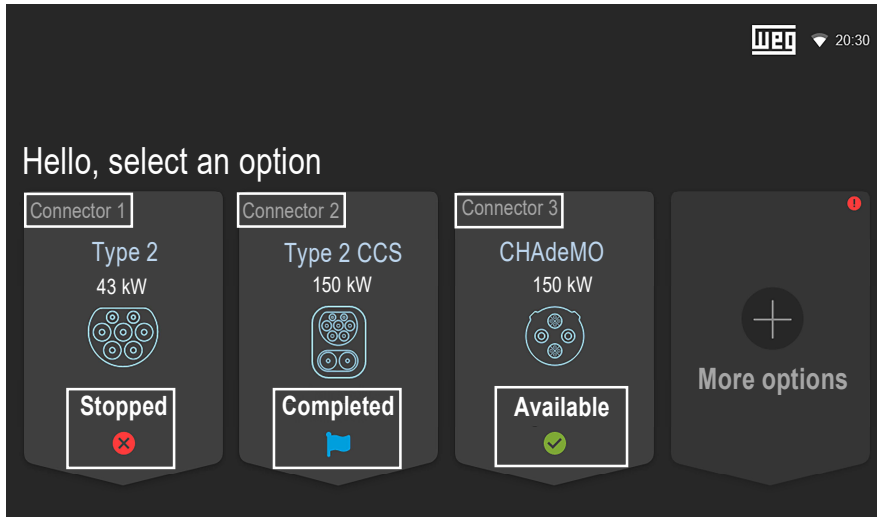


Figure 47: Home screen showing the status of each connector

Table 5: Connector status indication

Status	Description
	Connector available, ready to use
	Connector busy, charging in progress using this connector
	Charge completed, remove the connector and free the space for the next user
	Connector with Fault/Error
	This connector has been reserved and can only be used by the user who made the reservation
	The connector is unavailable and out of order

7.5 ERRORS

The WEMOB-STATION charging station can report various errors, which may be related to a problem with the charging station or reported during a charging session.

The diagnosis can be performed through the "Errors" screen by accessing the "More Options" window on the main screen, as shown in Figure 46 on page 51. Then, access the "Errors" window, where a screen with the error history is presented, showing date and time, error code, simplified description of the error and status and if the error is active or has already been solved.

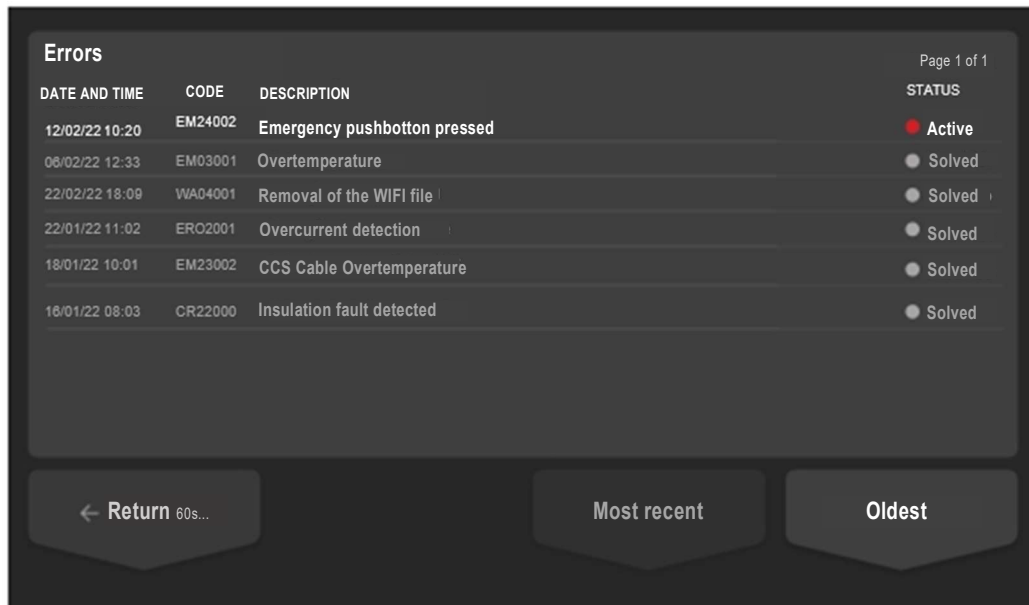


Figure 48: Error details screen

Errors are classified according to the level of action:

- Critical;
- Emergency;
- Error;
- Warning.

Table 6: Consequences according to action level

Actuation Level	Consequences
Critical	All connectors/functions are locked
Emergency	All connectors/functions are locked Exceptions: Navigation on the display and OCPP communication
Error	All connectors/functions are locked
Warning	None, except if the error prevents the operation of the activity in specific

8 TECHNICAL DATA

Table 7: Technical data

Input Data	
Rated voltage	380 - 415 VAC ± 10 % 3F+N+PE
Rated frequency	50/60 Hz ± 5 %
Maximum input current	58 A
Power factor	0.9 from 25 to 50% load
	0,98 from 50 to 100% load
CCS Output Data	
Output voltage	150 to 920 VDC
Maximum output power	30 kW
Maximum output current	80 A
Charging cable version	CCS Type 2
Mechanical life of the charging plug: no load (insert/remove)	> 10000 times
Approximate length of the charging cable	4.3 m
General Characteristics	
Installation method	Wall or pole mounting
Cabinet	Metallic
Approximate weight	≤ 110 kg – packed without pole
	≤ 150 kg – packed with pole
Indication	Multicolor status LED
	Color display 10.1"
	Beep
Connectivity	Wi-Fi
	RFID
	Cellular (NB-IoT / LTE Cat M1)
	Cabled Ethernet (RJ45)
Communication protocol	OCPP 1.6 JSON
Protections	Short circuit
	Overcurrent
	Voltage surge (control) via varistor
	Excessive internal temperature
	Hardware faults
	EV communication fault
	Insulation fault (IMD)
Environment Conditions	
Protection rating	IP54
Protection against external impacts	IK08
Operating temperature	-25 °C to 40 °C (no derating)
	41 °C to 50 °C (with derating)
Storage temperature	-25 °C to 80 °C
Air relative humidity	5% to 95% non-condensing
Maximum altitude	2000 m above sea level

8.1 WEMOB-STATION DIMENSIONS

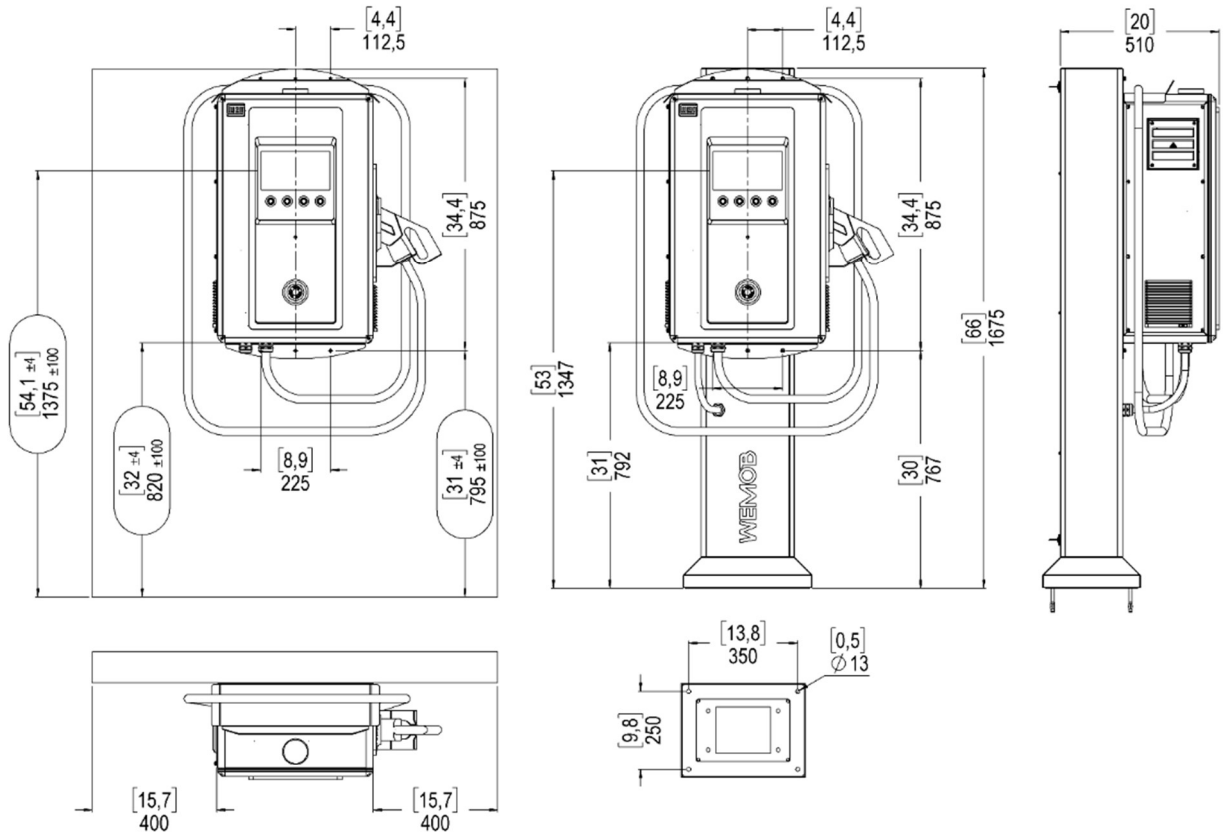


Figure 49: WEMOB-STATION dimensions in inches and mm - ["] mm

9 ANATEL



"This device has no right to protection against harmful interference and cannot cause interference in duly authorized systems."

"It incorporates product approved by ANATEL under number 17035-20-03402".



"This device has no right to protection against harmful interference and cannot cause interference in duly authorized systems."

"It incorporates product approved by ANATEL under number 07889-19-05903".



"This device has no right to protection against harmful interference and cannot cause interference in duly authorized systems."

"It incorporates product approved by ANATEL under number 08590-22-07908".

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