

EV Charging Station

WEMOB-STATION (60/80 kW)

User Manual



User Manual

WEMOB-STATION (60/80 kW)

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SUMMARY OF REVISIONS

The information below describes the reviews made in this manual.

Version	Revision	Description
	R00	First Edition.

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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:



DANGER!

Not following the procedures recommended in this warning may lead to death, serious injuries and considerable material damages.



ATTENTION!

Failure to observe the procedures recommended in this warning may lead to material damages.



NOTE!

The information provided in this note is important for the correct understanding and proper operation of the equipment.

1.2 PRELIMINARY RECOMMENDATIONS



DANGER!

- Only qualified personnel, familiar with the charging station and related equipment, must plan or execute the installation, startup, operation and maintenance of this equipment.
- Such personnel must follow 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. For more information, refer to Section 1.4 TECHNICAL SUPPORT 1-3.
- 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.



NOTE!

- For the purposes of this manual, qualified personnel are those who are trained and able to:
 1. Install, ground, energize, and operate the EV charging station in accordance with this manual and the applicable legal safety procedures.
 2. Wear and use personal protective equipment (PPE) in accordance with the applicable standards.
 3. Provide first aid.
- If the charging station will not be used for a long period, it is recommended to keep it powered on to prevent condensation inside.



ATTENTION!

- The electronic boards have electrostatic discharge sensitive components. Do not touch the components or connectors directly.
- Be careful not to damage the circuit boards or the components of the charging station.



NOTE!

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

1.3 CARE WITH 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.
- 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 front 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.

1.4 TECHNICAL SUPPORT

If you need to contact WEG, please use the channels listed below:

Talk to WEG



WEG Website

**DANGER!**

A damaged charging station must be removed from service and repaired.

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.

AC: Alternating Current.

APN: Access Point Name.

°C: Unit of temperature in degrees Celsius.

CCS: Combined Charging System.

cm: Centimeter = 0.01 m.

DC: Direct Current.

EV: Electric Vehicle.

FCK: Feature Compression Know.

FOTA: Firmware Over The Air.

ft: Feet.

GB/T: "Guobiao Tuijian", is China's national recommended standardization system.

IMD: Insulation Monitoring Device.

in: Inch, length unit of measurement, 1 inch = 2.54 cm.

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.

MPa: Pressure unit of measurement in mega Pascal.

NACS: North American Charging Standard.

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.

PPE: Personal Protective Equipment.

RCCB: Residual Current Circuit Breaker.

RFID: Radio Frequency Identification.

V: Volt, voltage unit of measurement.

GENERAL INFORMATION

VA: Volt Ampere, apparent power unit of measurement.

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 direct current (DC), individually or simultaneously, controlling, monitoring and protecting the equipment and users.

It has two direct current (DC) combo connectors standard CCS (Combined Charging System) Type 1, Type 2, NACS or GB/T, according to the purchased model.

Allows the simultaneous charging of two electric vehicles. When only one vehicle is charging, the entire nominal power of the station is available to that vehicle. If another vehicle begins charging, the power will be divided between the vehicles.

With a modern design, anti-vandalism metal structure, resistant to water splashes, UV rays, scratches and dust, the WEMOB-STATION charging station can be installed indoors or outdoors. It is the complete solution for fast charging electric vehicles in service stations and highways.

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

The WEMOB-STATION charging station has connectivity via wireless data network (Wi-Fi), wired Ethernet (RJ45), cellular (LTE), RFID (Radio Frequency Identification) with indication LEDs and audible signal to indicate the station status and/or monitor the charging process.

2.4 OVERVIEW

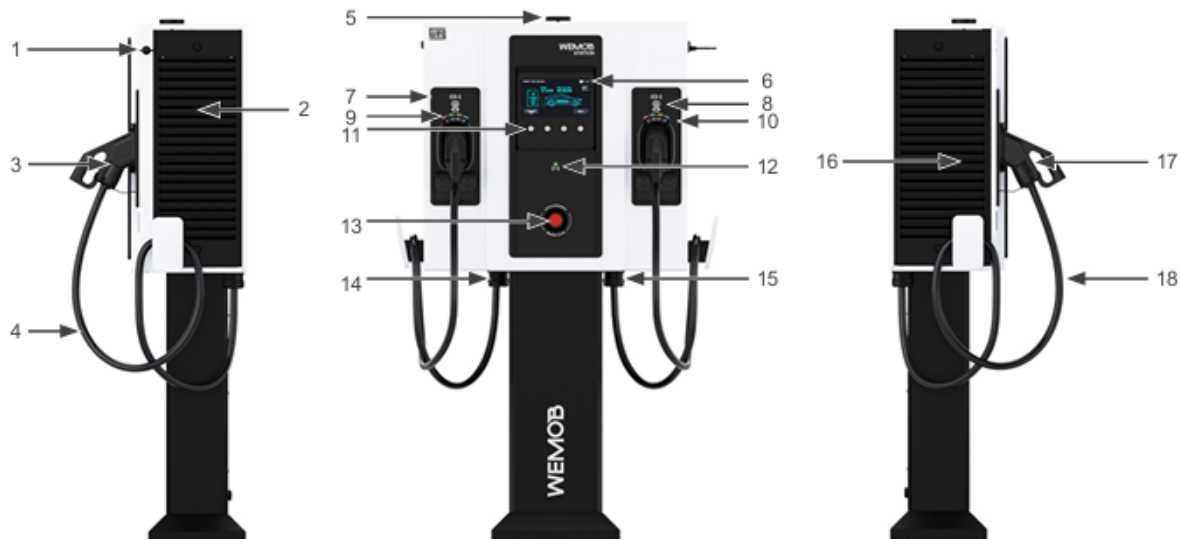


Figure 2.1: Overview of the WEMOB STATION (60/80 kW) charging station

Table 2.1: Overview of the WEMOB STATION (60/80 kW) charging station

1 - Side lock	7 - Socket for storing charging plug 1	13 - Emergency-stop pushbutton
2 - Side air inlet	8 - Socket for storing the charging plug 2	14 - Charging cable 1 output
3 - Charging plug 2	9 - Connector 1 indication LEDs	15 - Charging cable 2 output
4 - Charging cable 2	10 - Connector 2 indication LEDs	16 - Side air outlet
5 - Wi-Fi/Cellular antenna	11 - Selection buttons	17 - Charging plug 1
6 - Display 10.1"	12 - RFID Reader/LED	18 - Charging cable 1

2.5 IDENTIFICATION LABEL

The WEMOB-STATION charging station identification label is located inside the front door. This label contains important information about the station.

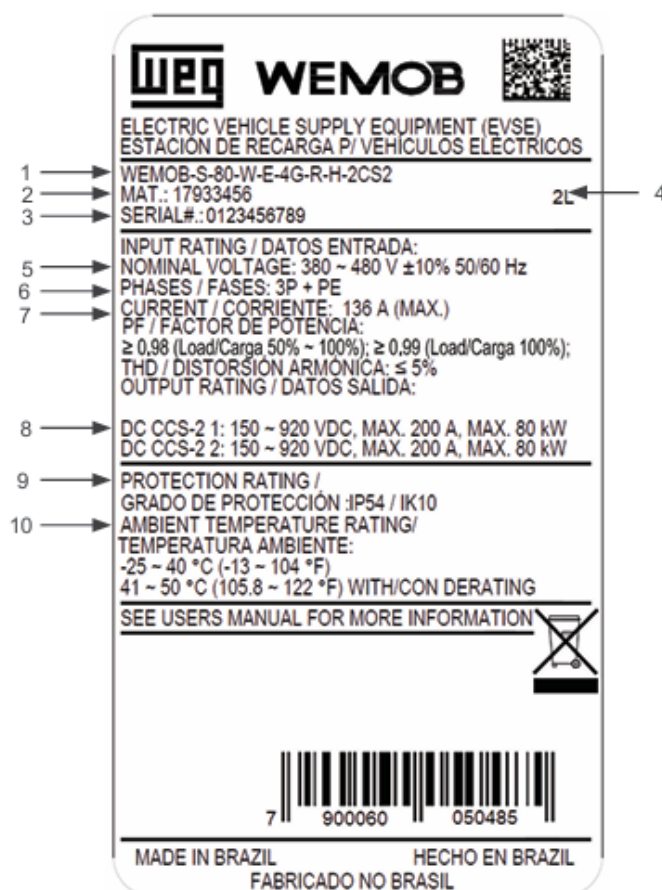


Figure 2.2: WEMOB-STATION (60/80 kW) identification label

Table 2.2: WEMOB-STATION (60-80 kW) identification label

1 - Product model	6 - Number of phases
2 - Stock item	7 - Maximum input current
3 - Serial number	8 - Voltage, current and maximum power of the connector
4 - Manufacturing date	9 - Protection rating
5 - Rated supply voltage and frequency	10 - Ambient temperature range

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 IK10 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 heat sinks located in each of the power modules (AC/DC converters). The hot air exits through the side of the station, where the exhaust fans are, allowing maintenance without opening the station door.

The grille filters can be cleaned or replaced from the outside, without opening the door or interrupting the station operation. Internal protections against accidental touch in polycarbonate for exposed live parts (without insulation cover).

The door have safety interlock switches connected in series with the emergency stop pushbutton, in case the door is opened, the power output is safely de-energized.

2.7 CONNECTORS

The WEMOB-STATION (60/80 kW) has two conventional charging cables 4.6 meter (15.09 ft), with a Combo CCS-1, CCS-2, NACS or GB/T plug, according to the purchased model, suitable for the maximum output current of the charging station, which can fit a variety of electric vehicles (EV):

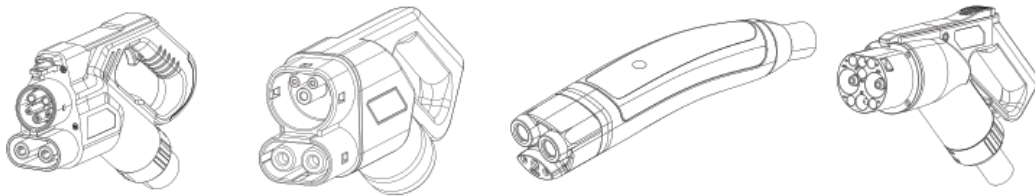


Figure 2.3: Connector models of the WEMOB-STATION (60/80 kW): CCS1, CCS2, NACS and GB/T respectively

To release the connector from the socket located on the front of the station, pull the plug upwards (1) and then pull it backwards (2).

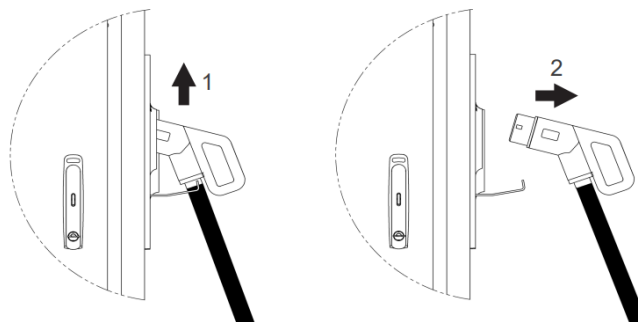


Figure 2.4: Procedure for removing the connector (plug) from the socket



NOTE!

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

2.8 INDICATION LEDS AND AUDIBLE ALARM

Above the socket for keeping the charging plug is a set of LEDs indicators that provides visual information about the operational status of the connector. 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.

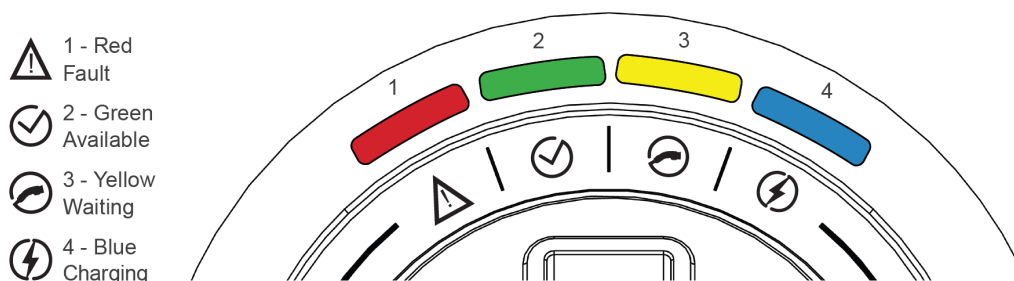


Figure 2.5: Indication LEDs

Table 2.3: Status indication

LED Color	Status	Description
All LEDs flashing	STARTING	Charging station performing 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	WAITING	Electric vehicle connected and in recognition process
Flashing yellow		Charging ended (complete or not)
Solid blue	CHARGING	Charging in progress
Flashing red	FAILURE	Station in failure or error state



NOTE!

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



DANGER!

Do not force the vehicle to disconnect by pulling on the charging cable. First stop charging through your vehicle, and only after it has been released should you remove the plug. Some electric vehicles allow the engine to start with the charging cable connected. Be sure to disconnect the cable before moving the vehicle.

2.9 RECEIVING AND STORAGE

The WEMOB-STATION charging station is supplied packed in a wooden grating, with a plastic inner lining.

This package contains a label outside describing the main characteristics of the product: model, WEG stock item, serial number, manufacturing date etc.

Upon receipt, check that:

- The identification label matches the model purchased.
- Damages occurred during transportation. If any problems are detected, contact the carrier immediately.
- If the WEMOB-STATION charging 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 80 °C (-13 °F and 176 °F).

GENERAL INFORMATION

After receipt:

- Remove the plastic wrap to prevent moisture condensation.
- Do not store 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 storage, 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 of 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 afore mentioned conditions.

3 INSTALLATION AND CONNECTION

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 Lifting

Make sure that the equipment used to lift the WEMOB-STATION charging station is suitable for its geometry and mass.

Check the center of gravity and ensure that the lifting devices are suitable and safe, with multiple attachment points.

The cables or chains used in the lifting must make an angle greater than 45° with the horizontal. The lifting must be performed slowly and steadily. Make sure, beforehand, that there are no obstacles in the entire path to be covered during this stage. If any change or damage to the panel structure is detected, abort the lifting and reposition the cables or chains, as shown in Figure 3.1 on page 3-1.

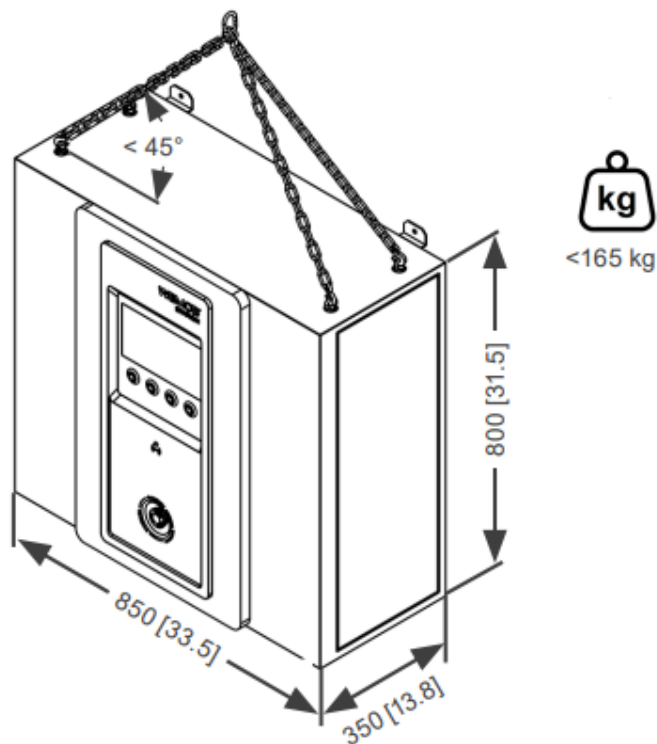


Figure 3.1: Geometry, mass and lifting recommended for the WEMOB-STATION - mm [in]



ATTENTION!

- During lifting, connect chains or cables to all available lifting points on the WEMOB-STATION.
- After positioning the WEMOB-STATION charging station in the final place of operation, the lifting eye bolts must be removed and replaced with M16 stainless steel bolts, stainless steel flat washers and O'ring, which come with the product, in order not to compromise the sealing and protection rating.

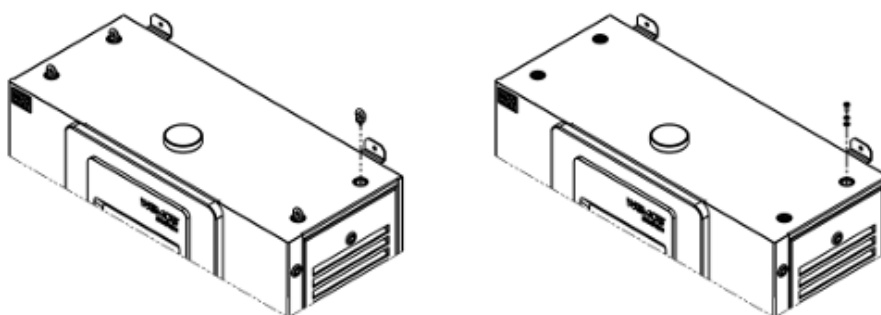
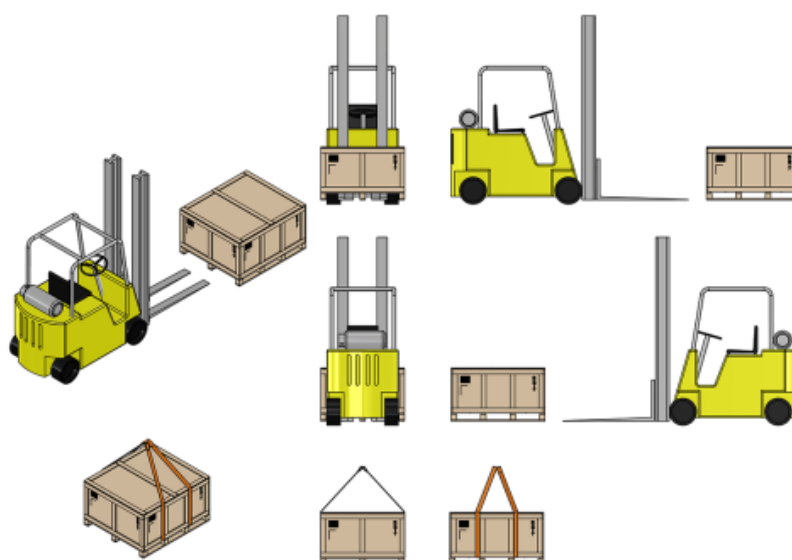


Figure 3.2: View of the replacement of one lifting eye with a bolt, washer and O-ring

3.1.2 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 doors are closed and locked and that the handles are in a protected position.



- Forklift.
- Hoist with lifting beam.

Figure 3.3: Procedure for handling with forklift or hoist



ATTENTION!

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

3.1.3 Opening the Package

Use suitable tools to unpack the WEMOB-STATION charging station, remove the plastic film with your hands or with the aid of a knife, always taking care not to damage the station.

While opening the package, check the product for damage. Do not install the WEMOB-STATION charging station if 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 charging station is designed for indoor or outdoor operation, for floor (ground) mounting.

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 location:

- To ensure a secure installation, check the condition of the concrete structure before installing.
- To ensure a secure mounting, check the condition of the ground before the installation.
- The mounting surface must be stable and resistant enough to withstand the charging station mass.
- Do not install the charging station on sloped surfaces.
- Avoid mounting it on unstable, moving or uneven surfaces.
- Avoid mounting the station below hanging objects or furniture that may fall and damage it.
- Determine the vehicle parking position to make sure that the station charging cable reaches the charging socket.
- 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 0.7 meters (0.7 m) (2.2 ft) on the sides and at the rear, and 0.95 meters (0.95 m) (3.11 ft) at the front the charger station, to allow users to circulate. It is recommended to provide a barrier to prevent vehicles from colliding with the station.

INSTALLATION AND CONNECTION

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.
- In places with adverse weather conditions, it is recommended to provide additional protection, install the station inside a building or install an additional protective shelter.
- Do not install 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 inside the equipment.
- Avoid exposure to flammable, explosive or corrosive gases or vapors.
- Do not expose it to excessive vibration.
- Do not expose the equipment to dust, metallic particles or oil mist.
- Avoid exposure to strong water jets, such as pressure washers, garden hoses, etc.

Environmental conditions permitted for the operation:

- Temperature: -25 °C to 40 °C (-13 °F to 104 °F) - rated conditions. From 41 °C to 50 °C (105.8 °F to 122 °F) - with derating.
- Air relative humidity: 5% to 95% non-condensing.
- Install the station in environments with air circulation.
- Maximum altitude: 2000 m (6.600 ft) 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

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

- Periodically clean the outside of the station, cables and charging plugs. It is recommended at least 3 (three) times a year.
- Perform the cleaning 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 inside the equipment.
- Do not use solvents or chemicals.
- If the charging station is very dirty, use a cloth slightly dampened with water to remove accumulated dust and dirt.
- Keep the air intakes 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 the metal parts for extra protection.

The following points need to be checked regularly:

- Condition of protective and switching devices, especially regarding the wear caused by arc and loosening of the contacts.
- Residual Current Circuit Breakers (RCCB): must be checked/tested regularly.
- Charging cables and connectors: 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.
- Door Safety Interlock Switches: check whether the switch actuator shows signs of deformation or the head body has mechanical damage.
- Emergency stop button: check for signs of cracks, fissures, and if the locking/release mechanism is working.
- Condition of the side fans.
- Value of the resistance of the ground electrodes.

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. For more information, refer to 1.4 TECHNICAL SUPPORT on page 1-3.

3.2.3 Corrective Maintenance

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



DANGER!

A damaged charging station must be removed from service and repaired. For more information, refer to 1.4 TECHNICAL SUPPORT on page 1-3.

INSTALLATION AND CONNECTION

3.2.4 Opening and Closing the Door

The opening and closing of the front door are done using a tubular lock, located on the upper right side.

To open the door, follow the instructions below:

1. Insert the special tubular key into the core of the security lock.
2. Turn the key counterclockwise.
3. Open the door.

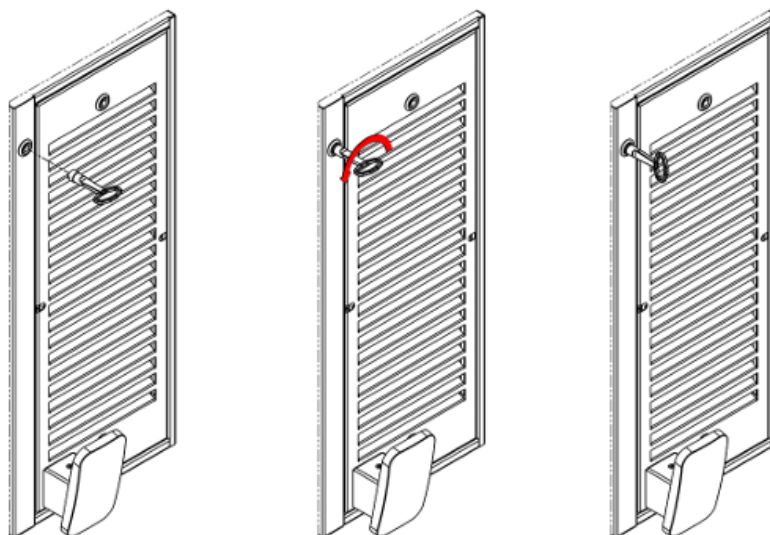


Figure 3.4: Instructions for opening the front door

To close it, just follow the reverse order.



NOTE!

- The front door has safety interlock switches connected in series with the emergency stop pushbutton. In case the door is opened, the power output is safely de-energized.
- Each lock has a unique key combination.

3.2.5 Position

It should be planned to have a minimum space of 0.7 meters (0.7 m) (2.2 ft) on the sides and rear, and 0.95 meters (0.95 m) (3.11 ft) at the front, in order to allow proper air circulation and better heat dissipation, as well as user circulation. It is recommended to include a physical barrier to prevent collisions between vehicles and the charging station.

The front and side areas of the WEMOB-STATION must not be obstructed, as they allow the necessary ventilation flow for heat radiation across all surfaces, in addition to enabling the full opening of the door, access to internal components for maintenance or installation, handling of power and control cables, and free access to the front for station use.

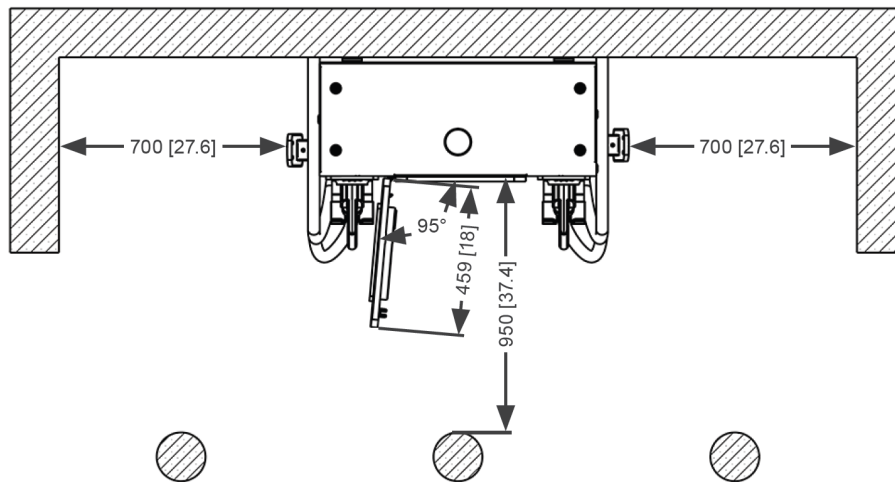


Figure 3.5: Minimum distance for attaching the WEMOB-STATION to the concrete structure - mm [in]

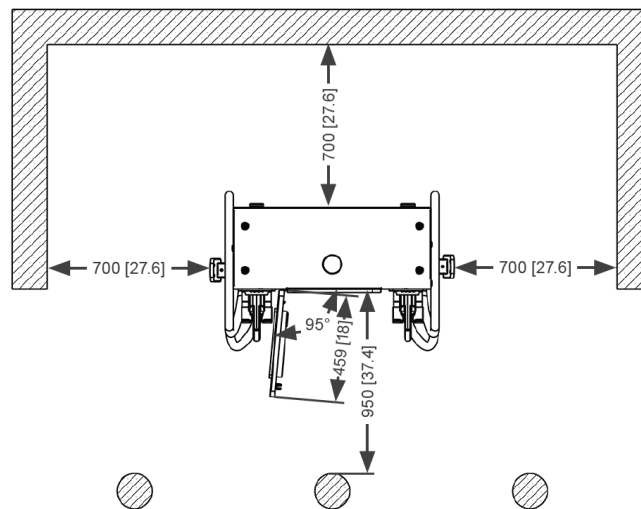


Figure 3.6: Recommended minimum distance for attaching the WEMOB-STATION to the totem - mm [in]



ATTENTION!

The final operating position of the WEMOB-STATION must allow heat radiation all over its surfaces and the necessary ventilation flow for its operation.

3.2.6 Fixing

The WEMOB-STATION has eight (8) mounting points, with four (4) on the rear face and four (4) on the bottom face. The WEMOB-STATION can be directly attached to a concrete structure with the separately provided kit, or to a totem, an optional item that can be purchased along with the WEMOB-STATION.

Attachment to the concrete structure: the WEMOB-STATION charging station must be attached to a concrete structure using the separately supplied kit, which includes plugs, washers, spring washers, and screws. It is essential to use all four (4) mounting points to ensure secure attachment for both the charging station and the operator.

INSTALLATION AND CONNECTION



ATTENTION!

- To ensure safety, it is recommended to use the separately provided kit to secure the WEMOBSTATION (60/80 kW) charging station to a concrete structure.
- If the WEMOB-STATION (60/80 kW) charging station is installed on a masonry wall, a technical reassessment is essential regarding the use of the provided installation kit. It is recommended to use fastening materials suitable for supporting a load greater than the equipment's weight, which is 165 kg [363.76 lb], considering an additional safety margin to prevent structural failures.
- To ensure secure and stable fixation, it is essential to inspect the condition of the concrete structure where the equipment will be installed. Make sure the structure does not have cracks, wear, or any issues that could lead to instability or the risk of the charging station falling.

To install the WEMOB STATION (60/80 kW), follow the steps below:

1. Mark the four (4) holes on the surface.
2. Use a drill to make the four (4) holes with a $\varnothing$ 10 mm [0.39 in] drill bit.

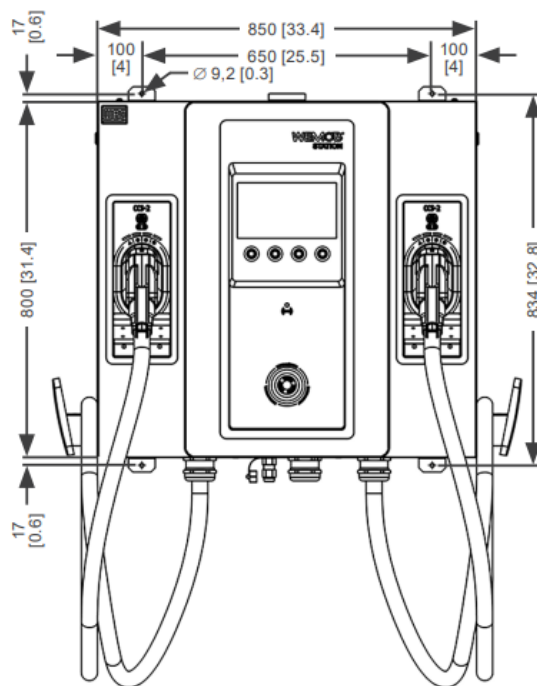


Figure 3.7: Dimensions of the WEMOB-STATION (60/80 kW) for attachment to the concrete structure - mm [in]

3. Insert the four (04) plastic plugs with a $\varnothing$ 10x50 mm [0.39x1.39 in] diameter into the holes.
4. Bring the station closer to the surface and align the rear face holes with the holes in the concrete structure.
5. Insert the washers onto the four (04) screws, align the screws with the holes, and tighten them using a No. 3 cross-head (Philips) screwdriver. The recommended tightening torque is 7 Nm.

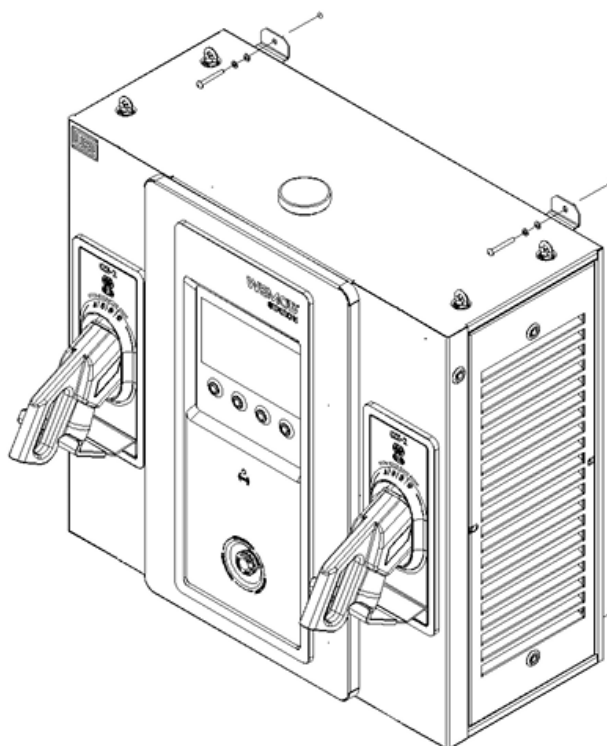


Figure 3.8: Example of mounting the WEMOB-STATION (60/80 kW) to the concrete structure

Mounting on totem: To mount the WEMOB-STATION on a totem, it is necessary to purchase the Totem Kit. In the kit, along with the totem, screws, nuts, washers, and anchors are included for mounting the totem and the charging station.

At least one 3" conduit must be provided for the power cable entry, and if the Ethernet connection is wired, another 3/4" conduit should be provided for the Ethernet cable. Use the internal DIN rail for the installation of a circuit breaker or other protection/disconnection devices.

It is recommended to have a cable length surplus of at least 1 meter (1 m) (3.28 ft) for this installation. Ensure that the power cable length is sufficient for connection to the internal terminals of the charging station.

The base of the totem should be fixed to the concrete base using four (04) anchors (3/8"), supplied with the product, which should be drilled or pre-cast as per the distances indicated in Figure 3.9 on page 3-9.

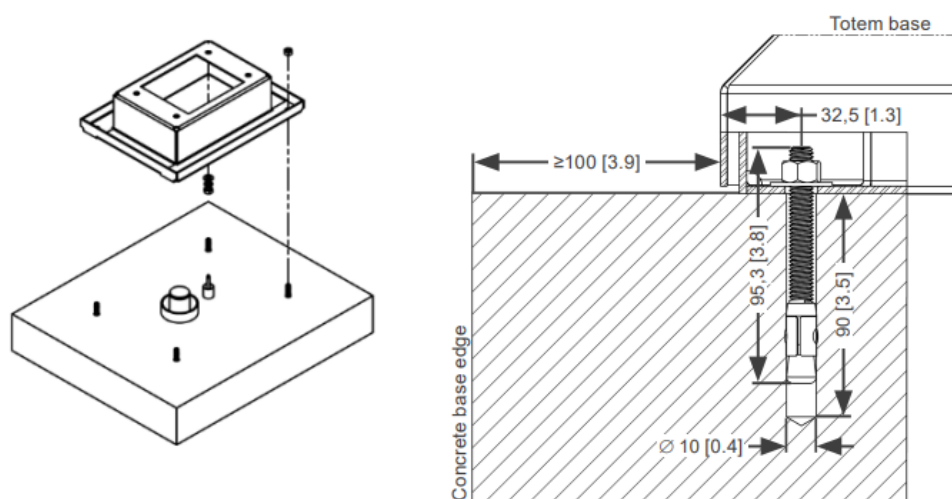


Figure 3.9: Details of the mounting points - mm [in]

The mounting of the totem to the product's base is shown in Figure 3.10 on page 3-10, using four (04) M10 hex screws provided with the product. The recommended tightening torque is 35 Nm.

INSTALLATION AND CONNECTION

To access the inside of the totem and secure it to the support base, it is necessary to remove the six (06) M4 screws using a cross-head (Phillips) screwdriver and use the special tubular key on the two (2) locks located at the rear of the totem.

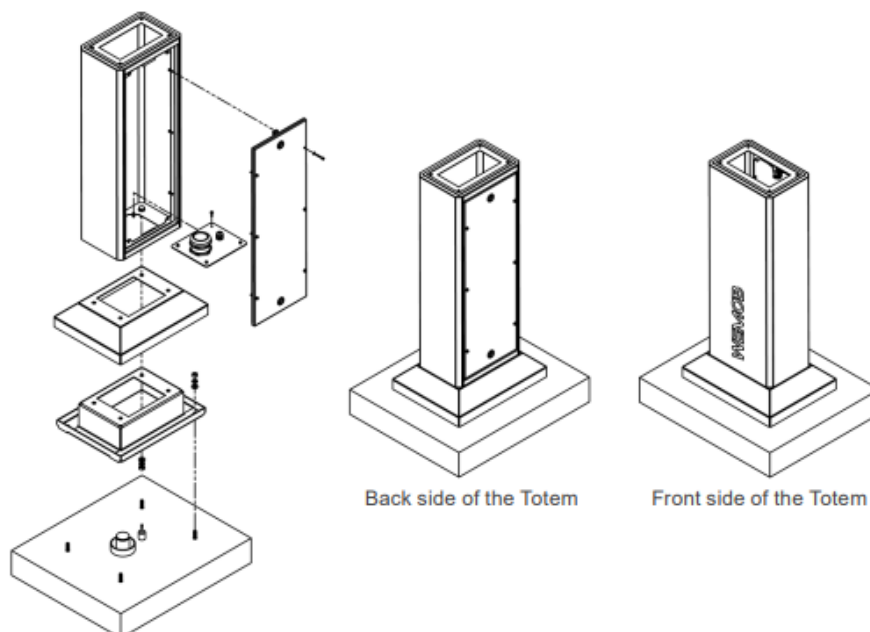


Figure 3.10: Exploded view of the assembly

After the totem is mounted to the concrete base, the charging station must be mounted. This should be done through the four (4) mounting points on the station, using four (4) M6 hex screws. The recommended tightening torque is 10 Nm to ensure a secure attachment for both the charging station and the operator, as shown in Figure 3.11 on page 3-10.

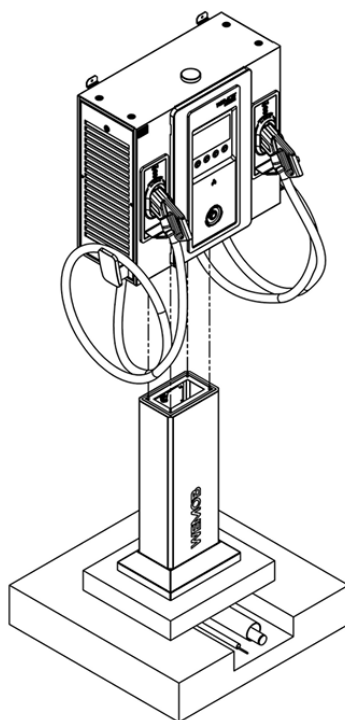


Figure 3.11: Example of mounting the WEMOB-STATION (60/80 kW) on the totem

After properly securing the WEMOB-STATION charging station to the totem, the rear closure of the totem should be reassembled, with the recommended tightening torque of 2.5 Nm.

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 the demand requirements are met by the power utility company.
- 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.

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.



ATTENTION!

- 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.).

3.3.2 Connecting the Power Supply



ATTENTION!

- The station has transformer T1 to select the supply voltage, it is necessary to make the connection described in Item 3.3.3 "Selection of Nominal Supply Voltage," on page 3-13.
- Check the product identification label for the station operating voltage range.
- The WEMOB-STATION charging station has a molded-case circuit breaker inside called "Q1" that guarantees overload and short-circuit protection.

INSTALLATION AND CONNECTION

The WEMOB-STATION is connected to the grid directly on the Q1 circuit-breaker terminals (Phases R-S-T) and on the Ground (PE) bar (grounding of the structure), as shown in Figure 3.13 on page 3-13.

It is recommended to use copper conductors with minimum gauges of:

Table 3.1: Minimum gauge of power conductors

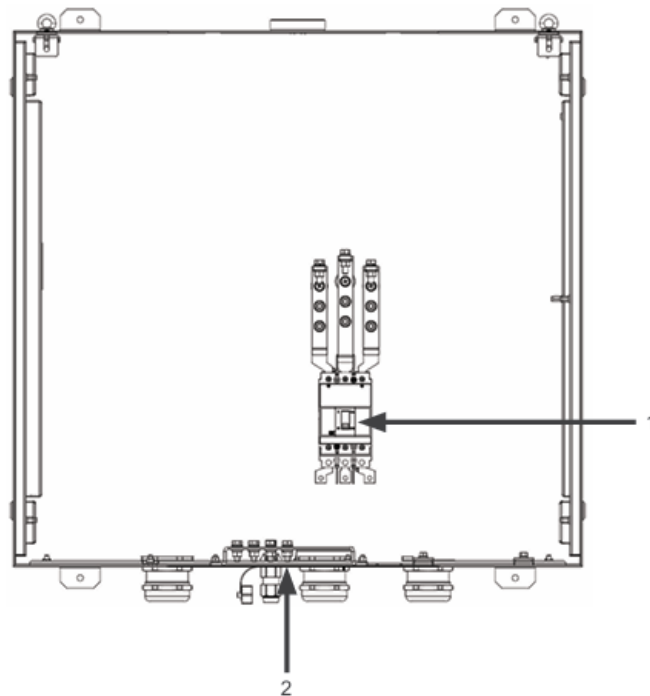
Model (Power)	Max. Current (A)				Phase (R-S-T)	Ground (PE)
	380	440	460	480		
80 kW	136	118	113	108	70 mm ²	35 mm ²
60 kW	103	89	85	82	50 mm ²	25 mm ²



NOTE!

- The specified conductor gauges consider the 380 V supply voltage.
- Minimum conductors are informed considering 70 °C (158 °F) PVC insulation in copper, free installation (not clustered), F reference method and conductor ambient temperature of up to 45 °C (113 °F).

The appropriate gauge of the power cables depends on the power and distance from the distribution box or switchboard to the charging station. Single cables or multiple cables can be used to meet the required power. Observe possible correction factors for the current capacity of the cables considering the installation method, temperature, distance and voltage drop. Under certain circumstances, that may lead to an increase in the cable cross section.



1. Q1 power circuit breaker (Phases R-S-T).
2. Grounding busbar (PE).

Figure 3.12: Power cable connections - Phases (R-S-T) and ground (PE)

The connections on the “Q1” circuit-breaker terminals must be made using lug terminals, pre-insulated or crimped, respecting the following recommended limit on Figure 3.13 on page 3-13.

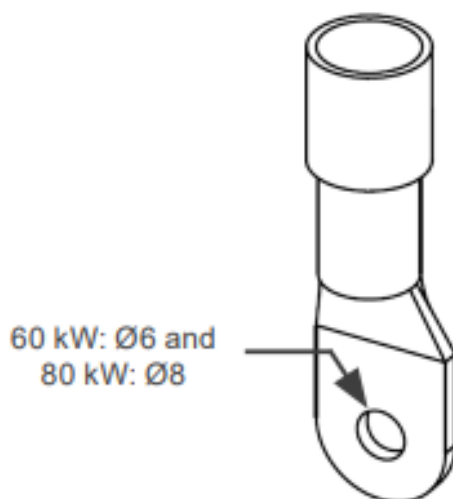


Figure 3.13: Lug terminal specification - mm [in]

Pay attention to the size of the lug terminal, comparing its dimension to the opening between the phase barriers or terminal covers. The recommended torque for tightening the eye terminal screws of Ø6 is 8 Nm, and for Ø8 it is 22 Nm.

3.3.3 Selection of the Rated Supply Voltage

The auxiliary and control circuits are powered by an internal transformer. It is necessary to select the rated voltage of the power supply: 380, 440, 460 or 480 VAC, on the TAG terminal set: XT.

To make this setting, follow the instructions below:

1. Open the station front door.
2. Locate the XT terminal block next to the power circuit breaker. (Figure 3.14 on page 3-14).
3. Using a 4 mm (0.16 in) screwdriver, remove the cable from the XT:F terminal and reconnect it to the XT:380, 440, 460, or 480 V terminal, according to the desired supply voltage.

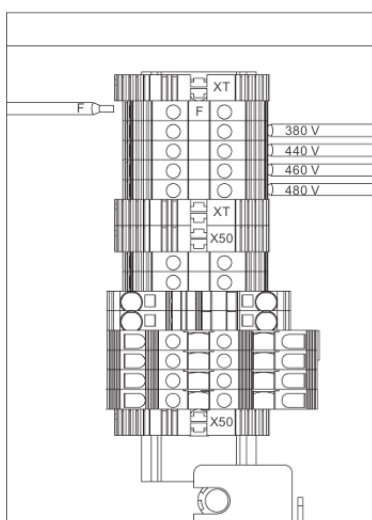


Figure 3.14: Setting the supply voltage

3.3.4 Protection Device



ATTENTION!

The WEMOB-STATION must be connected to an exclusive three-phase protection circuit breaker and to a residual current device (RCD) with sensitivity of 30 mA (AC) type A, for the charging station power circuit.

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.

3.3.5 Power-up preparation

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, leftover 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 values of the line voltages. Voltages between terminals R, S and T of Q1 circuit breaker must be within the station permissible operating range (as indicated on the product label).

4 ELECTRICAL DIAGRAM

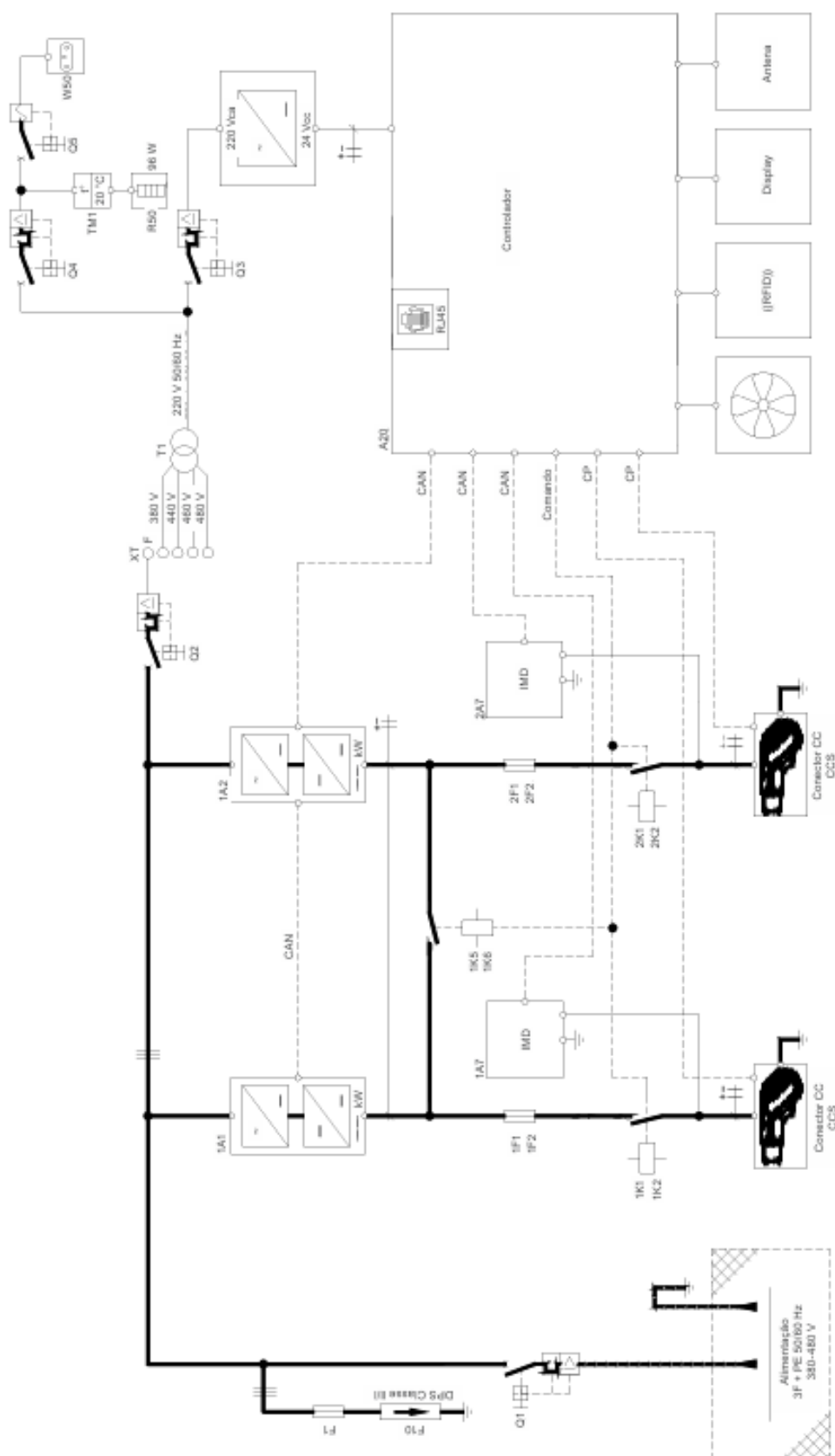


Figure 4.1: Simplified electrical diagram of the WEMOB-STATION (60/80 kW)

ELECTRICAL DIAGRAM

Table 4.1: Characteristics of the electrical diagram components according to the station model

Description (Component Tag)	Model (Station Power)	
	80 kW	60 kW
Molded case circuit breaker (Q1)	160 A	125 A
Fuse NH 000 gL/gG (F1.1/F1.2/F1.3)	63 A	63 A
Fuse NH_AR (1F1;1F2;2F1;2F2)	NH2 450	NH1 250
Motor circuit breaker (Q2)	2.5 – 4.0 A	

5 EMERGENCY STOP BUTTON

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

In addition, the door has a safety interlock switch connected in series with the emergency stop button; if the door is opened, the power output is safely de-energized. The display will remain on to report the fault and show instructions to the user.



NOTE!

- DO NOT PRESS THE EMERGENCY STOP BUTTON UNLESS THERE IS AN EMERGENCY!
- The emergency stop 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 whether the emergency stop pushbutton is pressed or a station door is opened. Check which condition triggered the stop.

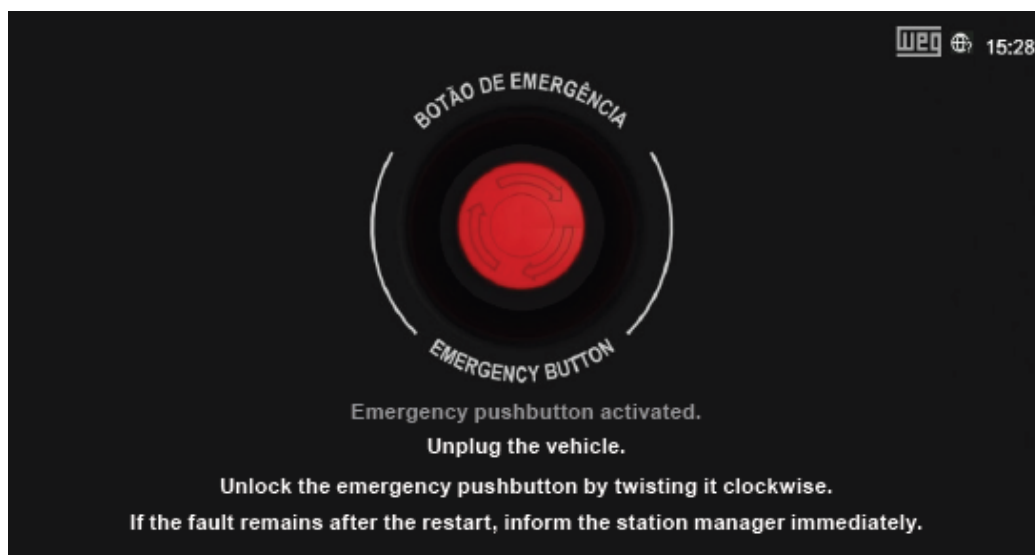


Figure 5.1: Screen indicating that the emergency pushbutton has been pressed

If there is an emergency, press the emergency stop 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. Also check for an open door or a faulty safety interlock switch.

Close and lock the door or replace the defective safety switch.

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.



Figure 5.2: Emergency pushbutton reset system

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**.

The smart remote management is accomplished through the global Open Charge Protocol – OCPP 1.6J, which allows connecting the charging stations to the users and operators via portals in the cloud.

The OCPP 1.6J communication protocol allows connection to management platforms. The protocol used in WEMOB-STATION stations is open, enabling connection to the WEMOB Management Platform or a third-party management platform.

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 the electric vehicle charging stations.

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.

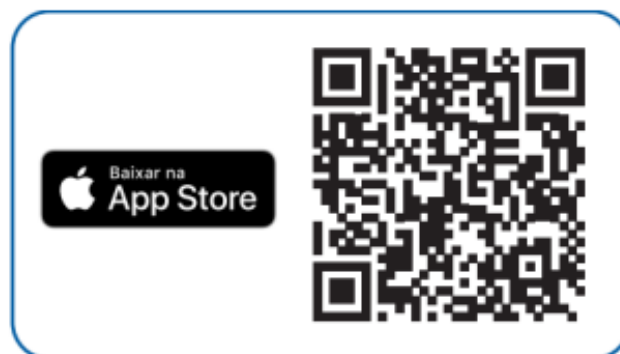
The WEMOB STATION is also compatible with third-party management platforms.



NOTE!

Access to non-domestic charging stations through the application is an optional item, included when hiring the WEMOB Management Platform service. For further information, contact the sales representative in your region.

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



6.1 COMMISSIONING

The charging station is commissioned via WEMOB EV Drivers app or web pages implemented in the station firmware. For the web pages option, the station generates an “access point”, which is a Wi-Fi network named WEG-EVSE-xxx, so that another device (smartphone, tablet, computer, laptop 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).
- Once the commissioning is completed, the “access point” is automatically turned off.
- After the station is commissioned once, even if the station is restarted or powered off, the information filled in during commissioning will be retained, so the “access point” will not be activated again in these cases. The “access point” will only be activated again allowing the editing of commissioning information if a factory reset of the product as described in Section 6.6 FACTORY RESET on page 6-17.

To commission the charging station, follow the instructions below:

1. Power up the charging station.
2. Within 10 minutes of powering on, connect your computer or mobile device to the Wi-Fi network WEG-EVSE-xxx. If you are using a computer or laptop with the Windows® operating system, left-click on the network icon in the lower-right corner of the taskbar. The appearance of these icons (📶 or 📶) varies depending on the version of Windows® installed. The utility will display all available wireless networks in your area. Click on the network identified by the SSID (network name) WEG-EVSE-xxx and then click “Connect”

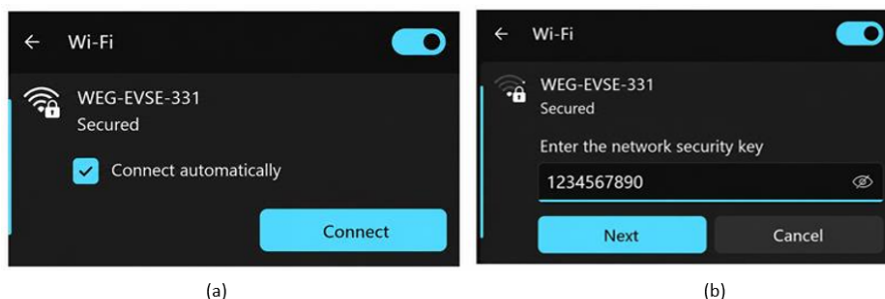


Figure 6.1: (a) WEG-EVSE-xxx Wi-Fi Network (b) Example of network security key

In the next window, enter the access password. Check for a dedicated yellow label for the password. On this label, the password is numeric and consists of 8 digits (e.g., 12345678). If this label is not present, use the value in the “SERIAL” field on the product label as the password. In this case, the password is numeric and consists of 10 digits (e.g., 1234567890). If using the password corresponding to the “SERIAL” field is unsuccessful, try again using the default password “password,” which is common to all devices from previous versions. If none of these options work, please contact the support team.



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 (4.93 ft) 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.

Open your web 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>.

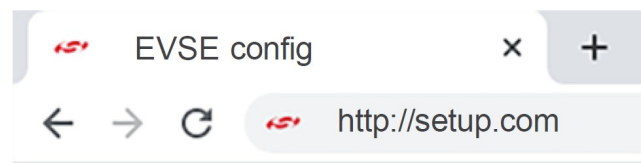


Figure 6.2: Access via web browser

3. Fill in the fields on the commissioning page according to the instructions below:

Information: this field is informational only and contains the serial number of the station and the firmware version. No action is required.

Connectivity: In this field, you can select one of the available connectivity options. The options are:

- Wi-Fi: Uses the Wi-Fi wireless network interface.
- Cellular: uses a mobile data network (3G/4G).
- Ethernet: uses a wired Ethernet network.
- Offline: disables all connectivity options for the charging station.

Following this, instructions will be provided on how to fill in the fields for each type of connectivity.



NOTE!

Only one connectivity can be active on the charging station, meaning that when choosing, for example, Wi-Fi connectivity, even if the station has Ethernet and Cellular connectivity available, these will be automatically disabled while Wi-Fi is the active connectivity.

Offline: Disables all network interfaces.

Does not use OCPP functions and the date and time of the station are configured through the Date/Time field.

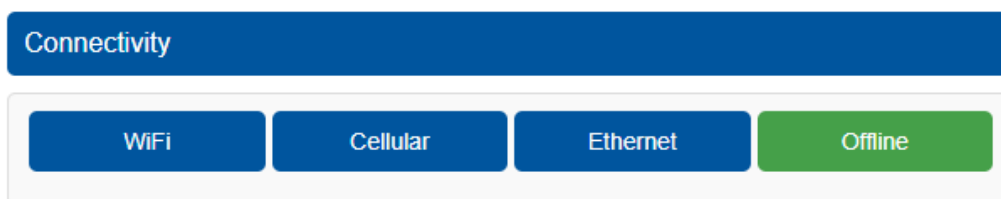


Figure 6.3: Configuration to set the station offline

Wi-Fi: when selected, it will enable the Wi-Fi network interface. The selection of the Wi-Fi network will be made on the next web page after clicking the "Send" button.



Figure 6.4: Selection to enable Wi-Fi connection

Ethernet: when selected, it will enable the wired network interface via Ethernet (RJ45).

DHCP enabled: the station obtains an IP address automatically.

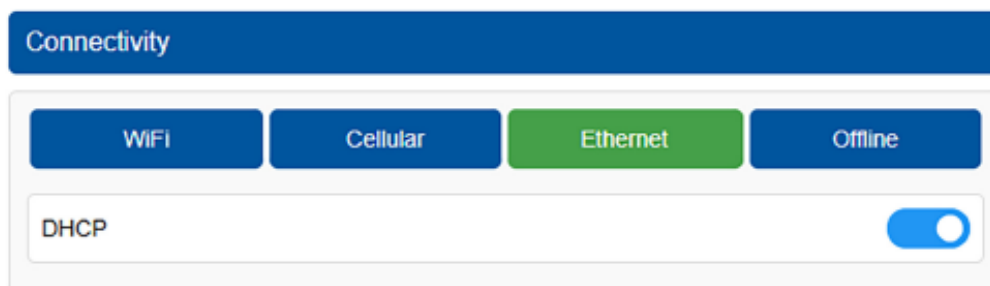
CONNECTIVITY

DHCP disabled: the settings must be defined manually.

IP address: the IP address is assigned manually by the user.

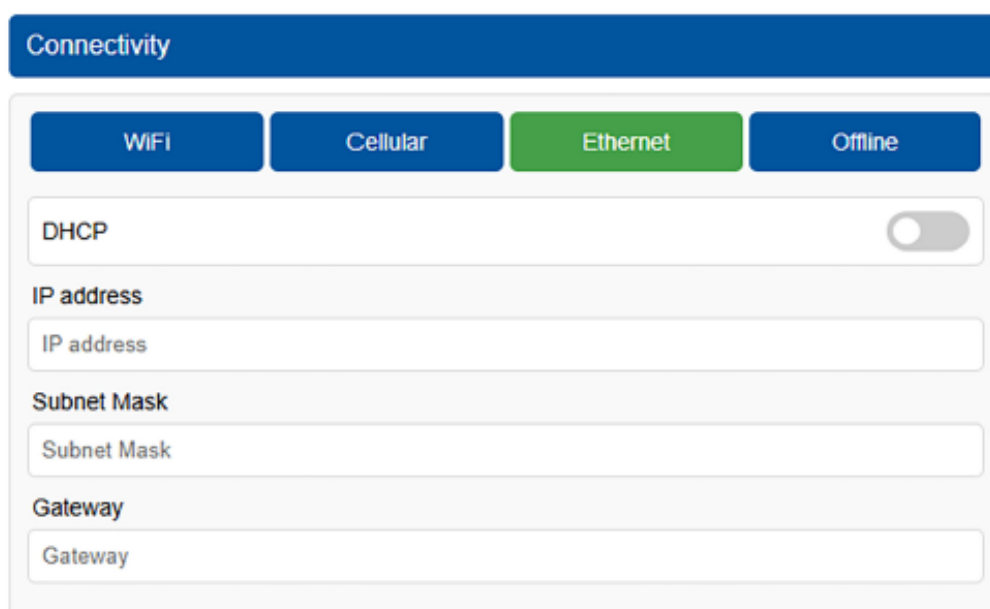
Subnet Mask: default network mask 255.255.255.0

Gateway: usually the IP address of the router.



The screenshot shows a 'Connectivity' settings panel. At the top, there are four buttons: 'WIFI', 'Cellular', 'Ethernet', and 'Offline'. The 'Ethernet' button is highlighted in green, indicating it is the selected connection method. Below these buttons, there is a 'DHCP' toggle switch which is currently turned on (blue).

(a)



The screenshot shows the same 'Connectivity' settings panel. The 'Ethernet' button remains selected (green). However, the 'DHCP' toggle switch is now turned off (grey). Below the DHCP toggle, there are three input fields for manual configuration: 'IP address', 'Subnet Mask', and 'Gateway'. Each field has a placeholder text with the same name as the field label.

(b)

Figure 6.5: (a) Selection to enable Ethernet connection via DHCP (b) Selection to enable Ethernet connection via static IP

Cellular: when selected, it will enable the mobile data network interface (3G/4G).

Next, you can configure the APN (Access Point Name), the user (User), and the password (Pass) of the cellular interface.

Connectivity

WiFi

Cellular

Ethernet

Offline

APN

APN

User

User

Password

Password

Figure 6.6: Selection to enable Cellular connection



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

OCPP:

OCPP

Server URL ?

wss://ocpp.weg.net/ocpp/chargebox/

Chargebox ID ?

1234567890

Password ?

Password

Charging Authorization ?

Always Authorized

Figure 6.7: OCPP server settings

Server URL: text field for the address of the WEG or third-party OCPP server. Example WEG Server: wss://ocpp.weg.net/ocpp/chargebox.



NOTE! It is possible to select the security level of the WebSocket protocol by using ws:// or wss:// at the beginning of the URL filled in the Server URL field. ws:// is the non-secure version of the protocol and should be used only in trusted networks or for local testing. Use wss:// whenever security is essential, as this protocol uses TLS (Transport Layer Security) encryption to protect against interceptions.

Charge Box ID: text field for identifying the station on the OCPP server.



NOTE!

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

Password: fill in with the password of the OCPP server to which the station is pointing.



NOTE!

- If the OCPP server requires authentication, the password you enter must be between 32 and 40 hexadecimal characters (0–9, A–F).
- Depending on the server configuration, this field may not be required.

- **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 this option if you wish to allow unrestricted access to charging.
- **Authorized by Local List:** user identification (authentication) is performed using RFID cards registered in the “Local List”; this list is managed by the station and is not integrated 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 OCPP platform.

When the Authorised by Local List or Authorised by OCPP Server authentication methods are selected, a message is displayed informing you that, after the commissioning process, there will be a 5-minute period to register an RFID “Master” card. If this registration window is missed, a new commissioning process will be required to complete the registration. It is also possible to enable a new registration window for the RFID Master card through configuration via OCPP. Refer to the Application Manual and Configuration Keys to verify the availability of this feature.

OCPP

Server URL ?

wss://ocpp.weg.net/ocpp/chargebox

Chargebox ID ?

1234567890

Password ?

Password in hexadecimal format

Charging Authorization ?

Authorized by Local List

 Once commissioning is complete, there will be a 5-minute period available for master RFID registration. After this period, registration will only be possible by running a new commissioning process.

Figure 6.8: Authentication mode configuration



NOTE!

- The Always Authorized and Authorized by Local List options can operate offline without connection to data networks or OCPP server.
- Refer to the WEMOB EV Drivers and WEMOB Station Fleet Management guide for more information about the platform.

Date/Time: enabled by default.

Enabled: the date and time fields are automatically filled in based on data from the device used to commission the station (cell phone, laptop, etc.).

Disabled: allows the user to manually select the date and time.

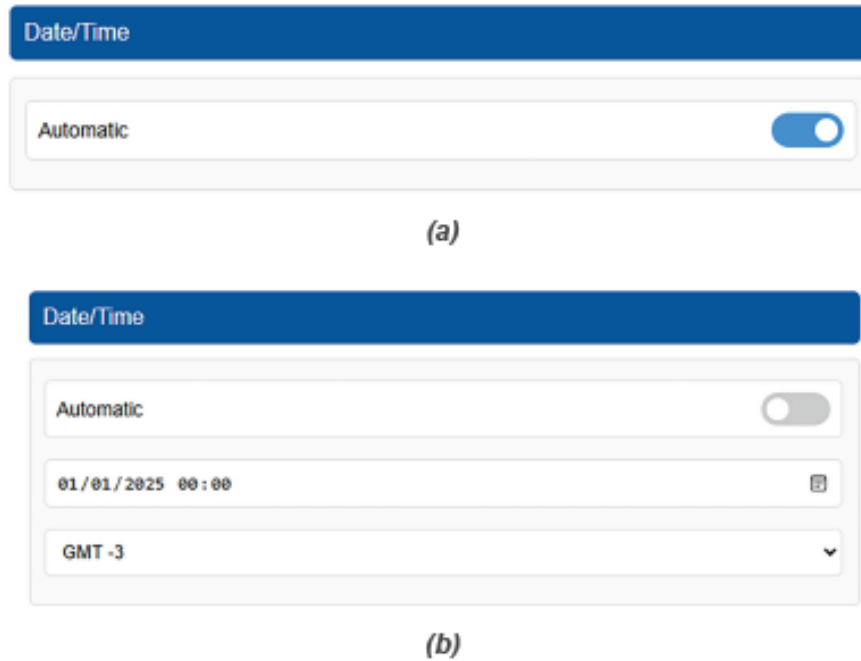


Figure 6.9: (a) Automatic Date and Time (b) Manually Entered Date and Time

Configuration:

System Health:

- Enabled: WEG Group may periodically release firmware updates to improve the performance and security of the equipment. By enabling this option, you allow WEG Group to collect information from this charging station that can help in fault detection and enable remote firmware updates. Check the terms of use and data privacy available on the commissioning page for more details.
- Disabled: disables this feature.

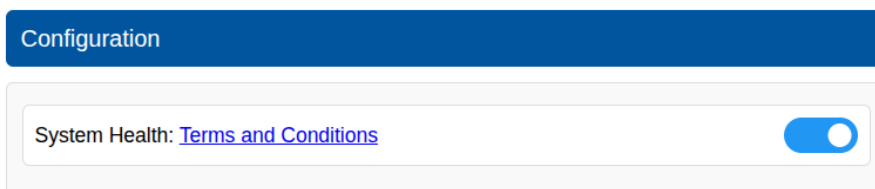


Figure 6.10: System Health configuration of the charging station

When the “Send” button is pressed, a message will appear informing you that this configuration step has been completed: “User configuration completed successfully!”. When you press “OK,” a warning message for configuring the Wi-Fi network will be displayed, “Now, please configure the Wi-Fi network...”. After confirmation, the user will be directed to the Wi-Fi network configuration page.

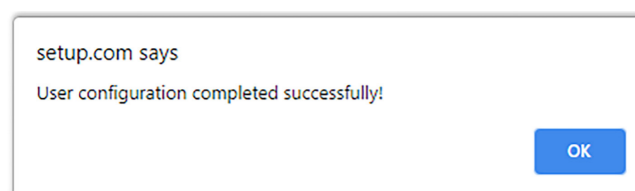


Figure 6.11: Configuration setup completed

4. On the Wi-Fi network configuration page, the visible Wi-Fi networks available for connection by the station will be displayed.

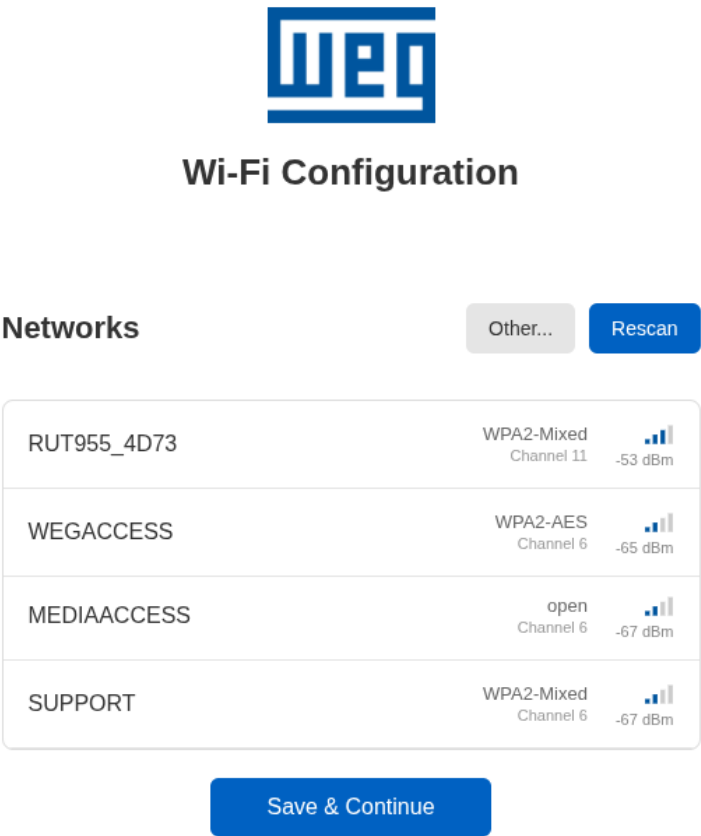


Figure 6.12: Wi-Fi network configuration page via web browser

Select the desired Wi-Fi network (in this example, the “SUPPORT” Wi-Fi network), enter the password in the ‘Password’ field, and click “Save Continue.” When you click this button, the message “Wi-Fi configuration in progress. Please wait...” will appear. Wait for the network configuration to complete, which may take about 15 seconds.

If the connection is successful, the message “Configuration saved and setup finished” will appear, indicating that the setup is complete. When you confirm by clicking “OK”, if you selected the “Authorized by Local List” or “Authorized by OCPP Server” authentication method, a reminder to register the RFID Master tag will appear: “Now please register the RFID master tag. You have 5 minutes.”

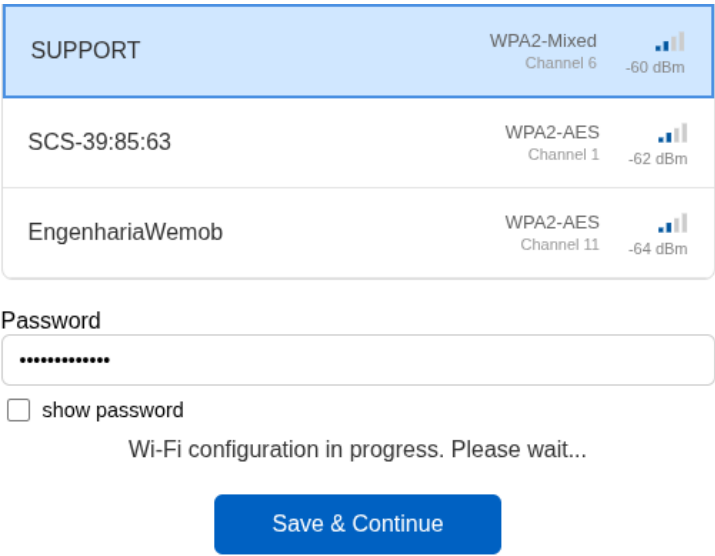


Figure 6.13: Wi-Fi network selection via web browser

5. If, even after performing the procedure as described, failures still occur, it is recommended to restart the station and repeat the configuration procedure.

**NOTE!**

On some access points, the password verification may fail, and the message: “Failed to connect. Please check the network information and try again.” will be displayed. If you are certain that the password you entered is correct, simply click “Save Continue” again. Whenever the name or password of your main router’s Wi-Fi network is changed, you will need to reconfigure the charging station; to do this, you must reset the station and configure it again.

Changes to the Wi-Fi connection settings can only be made by resetting the charging station and performing a new commissioning process, following the procedures described in items 4 and 5.

**NOTE!**

For managed networks, ensure that ports 53, 80, and 443 are open in the charging station router configuration, as the station uses these ports to communicate with the WEG OCPP Server. For operation with other servers, contact the charging point operator (CPO).

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 whether 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 2.4 GHz IEEE 802.11 b/g/n Wi-Fi networks with WPA2/WPA Personal security protocols, which are networks that require only an access password without the need for a username and password.
- If the registered Wi-Fi network is unavailable during power-up or while the charging station is in operation, it will automatically reconnect as soon as the Wi-Fi network is available again.

6.3 ETHERNET

**NOTE!**

- Some charging station models have an RJ45 connector on the bottom for connecting to an Ethernet network. Check whether the charging station model you purchased has this feature.
- Charging stations are not designed to operate on 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 router cable to the charging station on the RJ45 port. Use standard Ethernet cable, 100 Base-TX (Fast Ethernet), CAT 5e or higher, with a maximum length of 100 m (328.08 ft). To avoid communication interference, 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 metallic structure to the RJ45 connector available on the electronic control card.

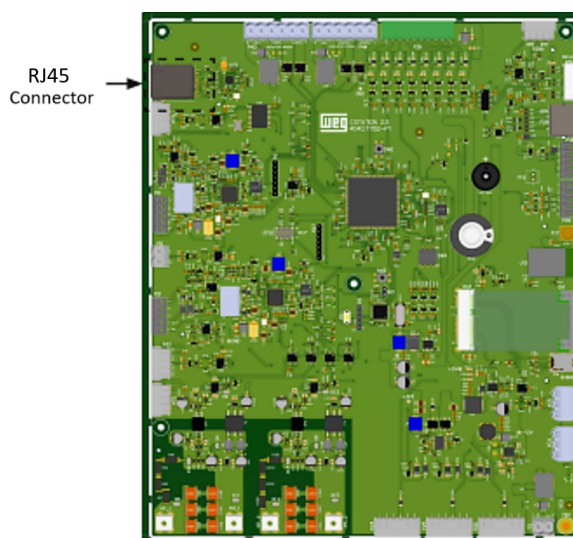


Figure 6.14: Location of the RJ45 connector on the electronic control card

6.4 CELLULAR PHONE



NOTE!

Some models of charging stations have a module for mobile networks (LTE). Check if the purchased station model has this connector.

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

The charging station has an external high-gain antenna and is compatible with LTE 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 width [0.48 x 0.35 in]).
- When hiring a data plan with a telephone operator, be aware of this detail.



ATTENTION!

Make sure the device is turned off before inserting or removing the SIM card. Otherwise, the device 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.

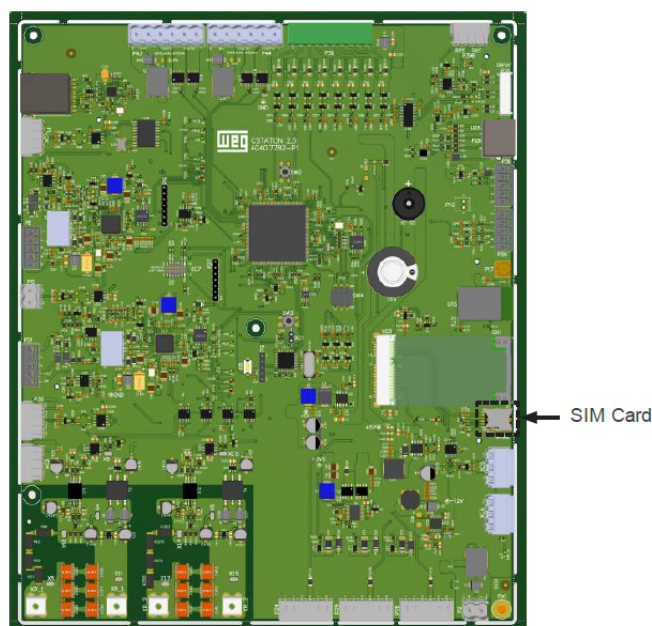


Figure 6.15: Location of the SIM card slot on the electronic control card

3. Align the SIM Card with the electronic control card slot. For the correct insertion, the beveled edge of the SIM Card must be aligned to the right and the metal contacts face downwards. See 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.

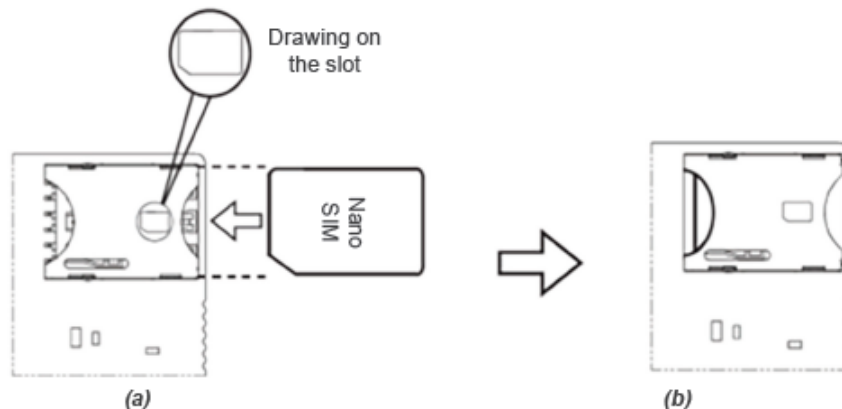


Figure 6.16: (a) and (b) Procedure to insert the SIM card

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.

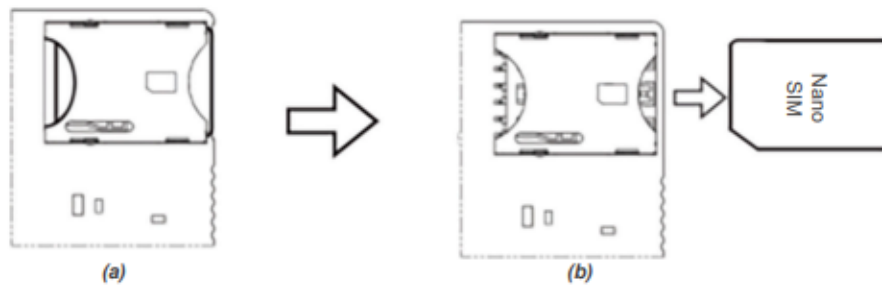


Figure 6.17: (a) and (b) Procedure to remove the SIM Card



NOTE!

- For details on opening and closing the WEMOB-STATION charging station, refer to Item 3.2.4 Opening and Closing the Doors on page 3-6.
- All doors have safety interlock switches connected in series with the emergency stop pushbutton, in case the doors are opened, the power output is safely de-energized.

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 the page 6-1. 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 process, you are not allowed to start or stop a recharge using the RFID card.
- The process of adding or removing cards must be performed with the station in “Available” mode.
- RFID cards are supplied separately in packs of ten (10). Part number 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

Once the commissioning process is complete, with the general and connectivity settings defined, the system checks whether a ‘Master’ card is already registered.

If there is no registered ‘Master’ card and the authentication mode selected during commissioning is ‘Authorised

by Local List' or 'Authorised by OCPP Server', the RFID reader LED will flash for approximately five (5) minutes, waiting for the first card to be approached, which will be considered the 'Master' card.

If no card is approached within this period, the station will start its normal operation without the RFID Local List functionality, allowing only authorisation via OCPP. For the station to return to the 'Master' card registration mode, it will be necessary to perform a new commissioning process by resetting the station. It is also possible to enable a new registration window for the 'Master' tag by configuring it via OCPP. Consult the Application Manual and Configuration Keys (Keys WEMOB WEG) to verify this functionality.

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

1. When commissioning the charging station, the reader LED ((RFID)) will flash green for five (5) minutes.
2. While the green LED is blinking, hold the card close to the reader ((RFID)).
3. If registration is successful, the station will emit one brief audible alert (short beep) and the RFID reader's LED will turn solid green.
4. If five (5) minutes have elapsed, restart the station and repeat the procedure. It is also possible to enable a new registration window for the "Master" RFID card by configuring it via OCPP. Refer to the Application Manual and Configuration Keys to verify this functionality.

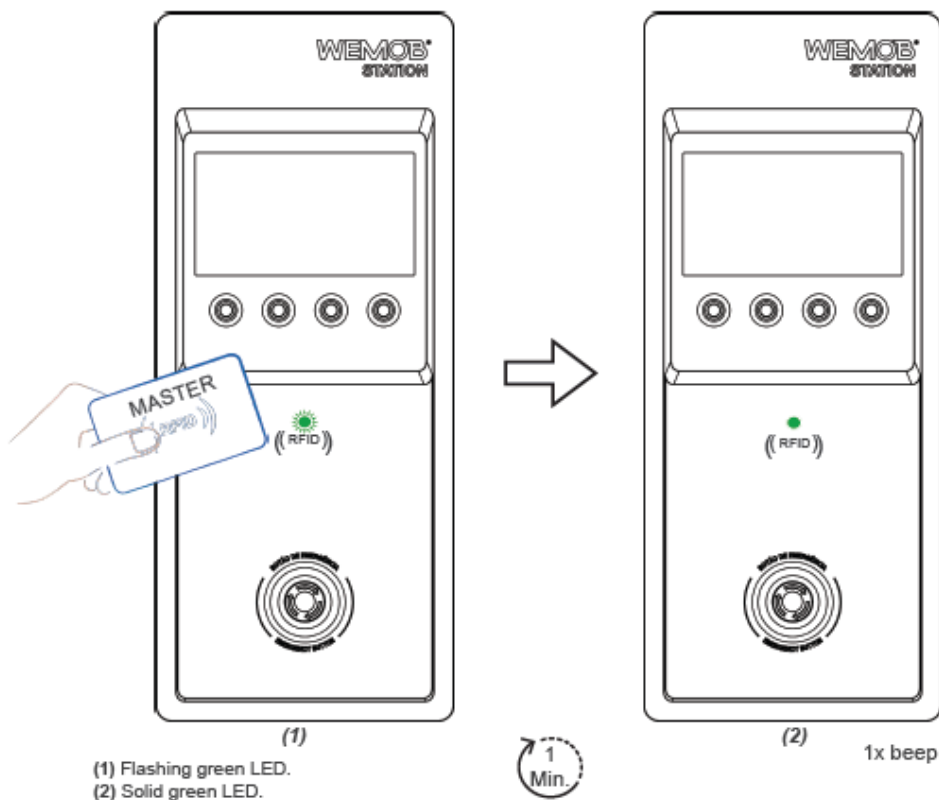


Figure 6.18: Registration of the RFID "Master" card



NOTE!

- Only 1 (one) "Master" card can be registered.
- The "Master" card cannot be used to start or end a recharge.
- In case of loss of the "Master" card, a Factory Reset must be performed. More information in 6.6 FACTORY RESET on page 6-17.

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 1 (one) minute, waiting for the “User” card to approach.

To register the “User” card locally, follow the instructions below:

1. Power up Power up the charging station, and the reader LED ((RFID)) 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 reader ((RFID)) , 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 reader ((RFID)).
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.

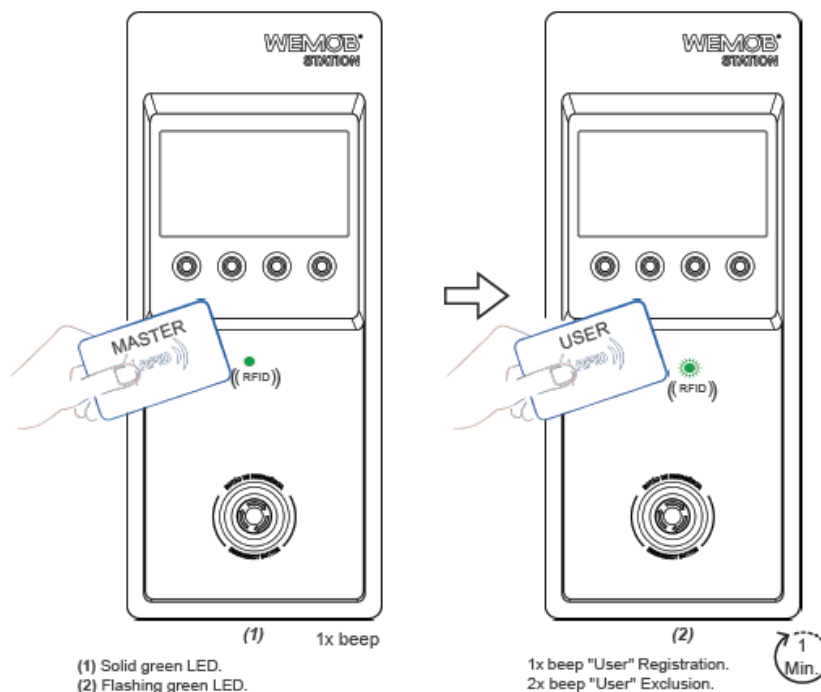


Figure 6.19: Registration/Exclusion of the “User” RFID card



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.

6.5.3 Procedure for Charges with RFID

In this operating mode, the user will need a “User” card duly registered by the person responsible for managing the station to start charging.

To start charging your electric vehicle, follow the instructions below:

1. Check that the station is in the “available” mode (ready for use), with the light indicator in solid GREEN.
2. Bring the “User” card close to the station ((RFID)) reader.
3. After confirming the identification of the “User” card, the station will indicate for 1 (one) minute through the “available” LED flashing in GREEN that the charging has been authenticated.
4. Remove the plug from the charging station and plug it into the vehicle. After the connection to the vehicle, the charging station indication LED will be solid YELLOW. If 1 (one) minute has elapsed and the connection between the station and the vehicle has not been established, the station will emit a long beep and return to the “available” mode, with a solid GREEN light indication.
5. If the connection is successful, the station will start charging the electric vehicle and indicate it in solid BLUE.
6. To end the charging, bring the “User” card close to the ((RFID)) reader or end it through the vehicle.



NOTE!

- Follow the instructions on the back of the WEMOB-RFID card.
- Each vehicle has its own method for ending the charging. Therefore, it is recommended reading the vehicle manual for the correct interruption of the process.
- The station will emit an 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” pushbutton on the central part of the electronic board, and keep it pressed for:

- Three seconds (3 s): Deletes all commissioning configurations 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): Deletes all commissioning configurations 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” pushbutton safely.

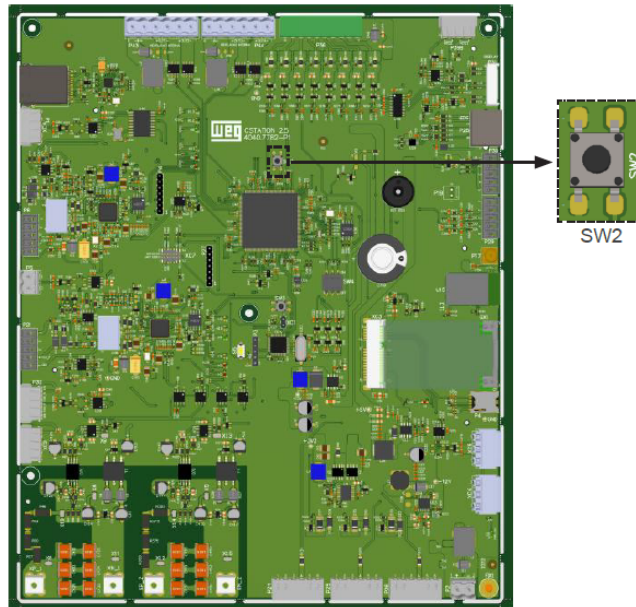


Figure 6.20: Location of the “SW2” reset pushbutton on the electronic card



NOTE!

The “Master” RFID card can be used to perform a factory reset (*), without the need to open the front cover of the charging station. This procedure deletes all commissioning settings and the Local List of cards (“User” and “Master”).

(*) Only available in charging stations with firmware versions equal to or greater than 2.0.0.

To perform the Factory Reset procedure using the “Master” RFID card, follow the instructions below:

1. Bring the “Master” card close to the ((RFID)) reader for twenty seconds (20 s).
2. The station will emit 1 (one) short beep, and the RFID reader LED will flash green.
3. After ten seconds (10 s), the station will emit 1 (one) short beep every two seconds (2 s), indicating that it will enter the next stage of the process.
4. After twenty seconds (20 s), the station will emit 2 (two) shorts beeps. Move the “Master” ((RFID)) card away from the ((RFID)) reader and wait for the station to restart.

6.7 FIRMWARE UPDATE

The electric charger market 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 typically takes three to 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.

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



ATTENTION!

Point to the firmware directory (URI) corresponding to the model of charging station purchased, under 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:



- Commissioned station 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



DANGER!

- Before operating the charging station, visually inspect it for damage. A damaged charging station must be removed from service and repaired.
- Do not allow children or people with reduced mental or sensory capabilities to operate the charging station.

After completing the mechanical and electrical installation, the WEMOB-STATION charging station is ready to go into operation. Open the left side door and switch the “Q1” circuit breaker on. After switching on the “Q1” circuit breaker, close the door as the safety interlock switches are in series with the emergency pushbutton.

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



NOTE!

- All doors have safety interlock switches connected in series with the emergency stop pushbutton, in case the doors are opened, the power output is safely de-energized.
- Check that the emergency stop pushbutton is not activated.
- The emergency stop button must not be used as an option to end a charging procedure or to stop another user from charging.
- The WEMOB-STATION (60/80 kW) charging station allows for the simultaneous charging of two electric vehicles. When only one vehicle is charging, the entire nominal power of the station is available to that vehicle. If another vehicle starts charging, the power will be divided between the two vehicles.

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, configured in section 6.1 CONNECTIVITY on page 6-1.

- 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: a autorização é fornecida pelo servidor OCPP. Nesse modo de autorização os usuários e seus cartões RFID devem ser cadastrados na plataforma WEMOB.



NOTE!

The images of section 7 OPERATION on page 7-1 show detailed information on the direct current (DC) charging process using the CCS-2 connector. The same process is valid for the models with CCS-1, NACS and GB/T connectors.

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 WEMOB-STATION (60-80 kW) model charging station with two plugs allows for charging up to two vehicles simultaneously.
- Screens shown in this manual use as an example the 180 kW charging station. Therefore, consider the maximum power as 60 kW or 80 kW, according to the model purchased.

To start the charging process:

1. Select one of the connectors available, and press the button corresponding to the selected connector. At this stage, the indication LEDs of the corresponding connector will light in solid GREEN.

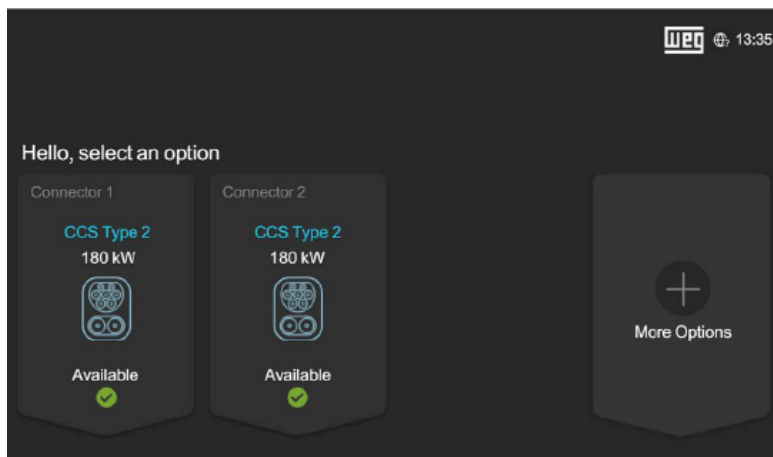


Figure 7.1: Home screen

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

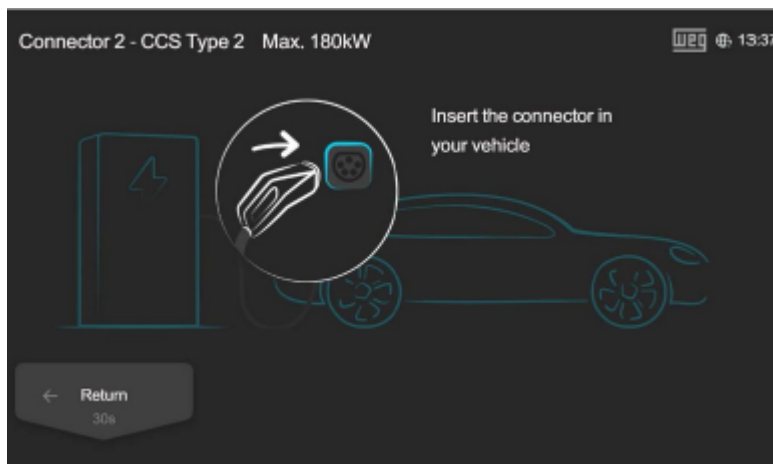


Figure 7.2: Instruction screen to "Insert the connector into your vehicle"

It is possible to cancel the process by pressing the "Return" 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 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.

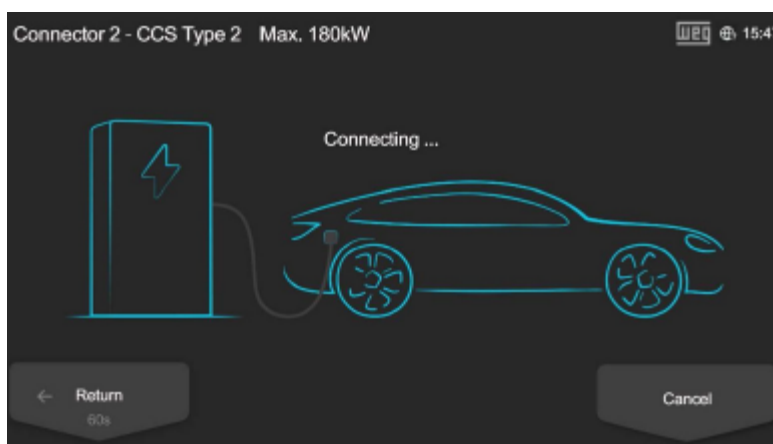


Figure 7.3: Screen indicating that the electric vehicle has been connected and is in the process of being recognized

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

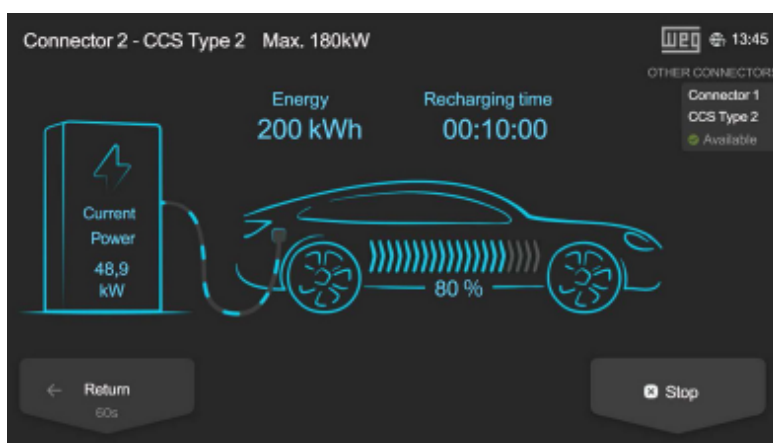


Figure 7.4: Screen with details on the charging in progress and “Stop” button

It is possible to go to the home menu by pressing the “Return” 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.

Fully charged: after the battery is fully charged, the electric vehicle will keep the connector locked. 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.

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.



NOTE!

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

7.2 “AUTHORIZED BY LOCAL LIST OU OCPP SERVER” OPERATING MODE

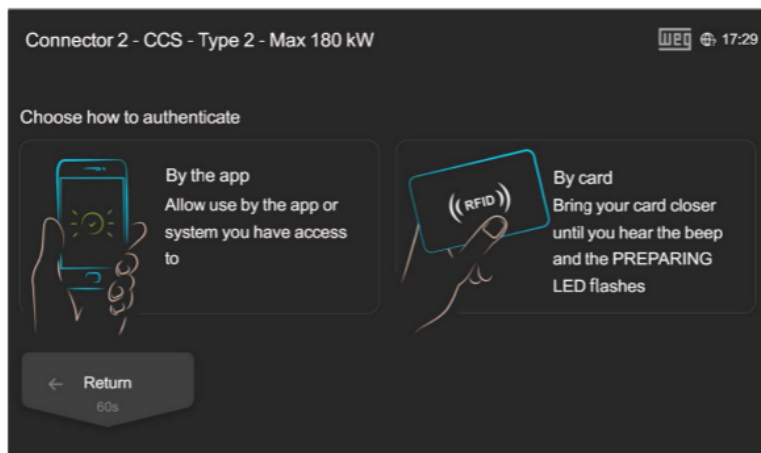


Figure 7.5: Screen to select the release method

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

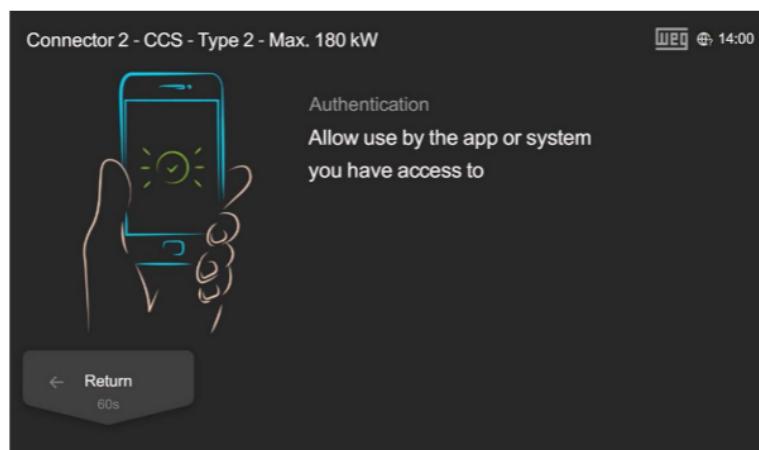


Figure 7.6: Charging release screen via app

If selected via RFID card, the charging must be released and ended using the RFID card. Bring the “User” card close to the reader ((RFID)) of the station.

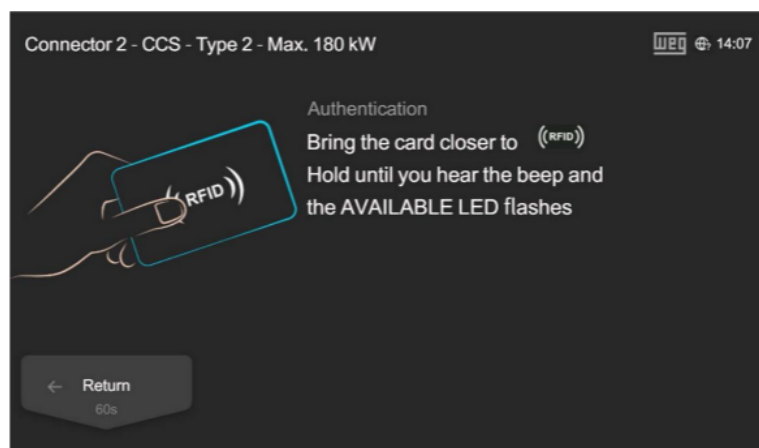


Figure 7.7: Screen with instructions for releasing the charging via RFID

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.

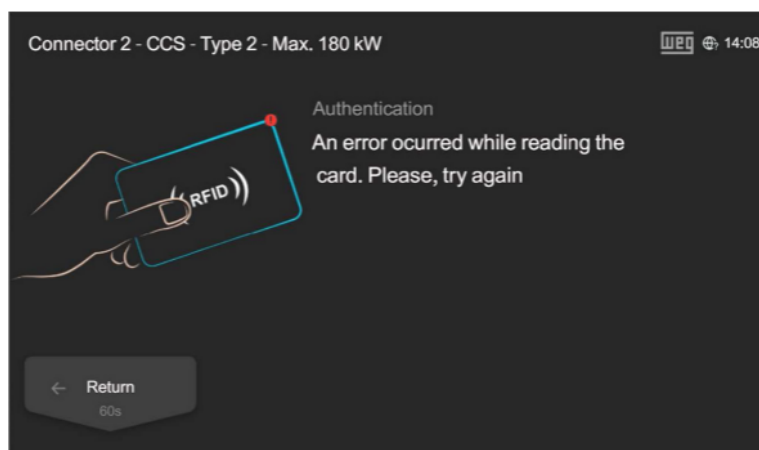


Figure 7.8: Screen indicating an RFID card authentication error

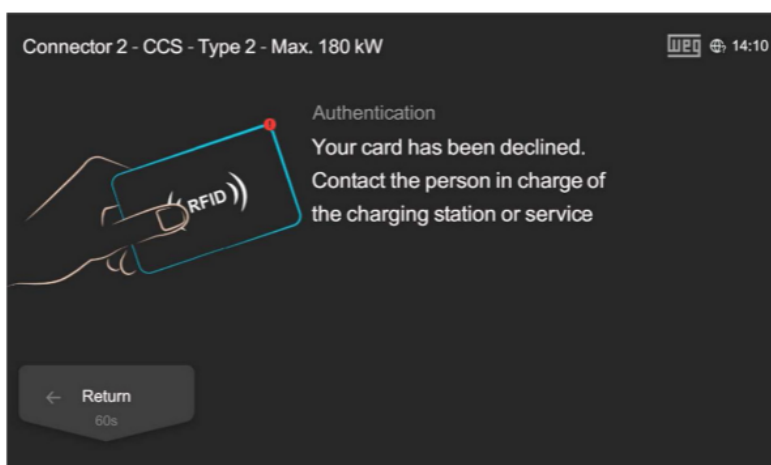


Figure 7.9: Screen indicating problem in the authentication of the RFID card

**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.

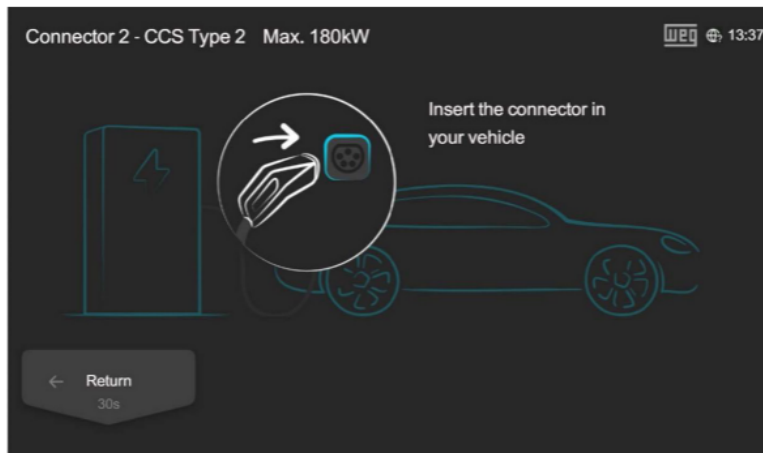


Figure 7.10: Instruction screen to “Insert the connector into your vehicle”

It is possible to cancel the process by pressing the “Return” 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.

4. 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.

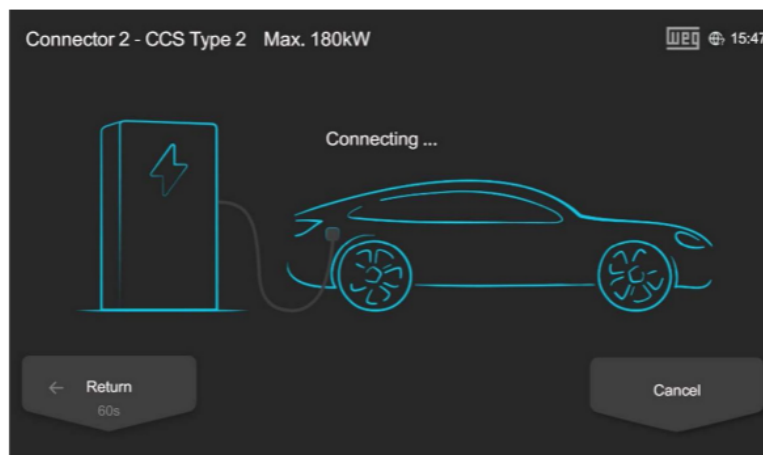


Figure 7.11: Screen indicating that the electric vehicle has been connected and is in the process of being recognized

It is possible to cancel the process by pressing the “Return” button.

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

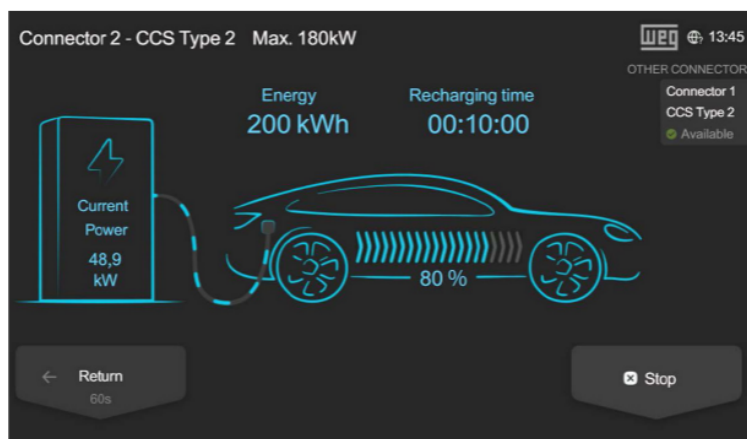


Figure 7.12: Screen with details on the charging in progress and “Stop” button

It is possible to go to the Home Menu by pressing the “Return” 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.

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

Fully charged: after the battery is fully charged, the electric vehicle will keep the connector locked. 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.

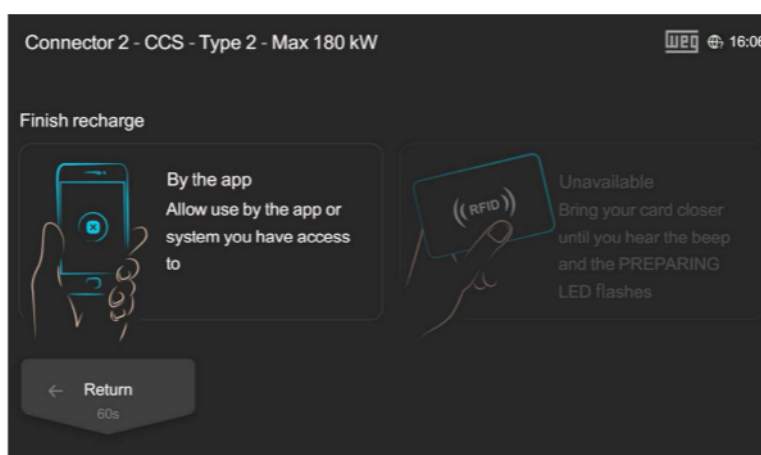


Figure 7.13: End of charging process via app screen

If selected via RFID card, the charging process must be ended using the RFID card. Bring the “User” card close to the reader ((RFID)) of the station.

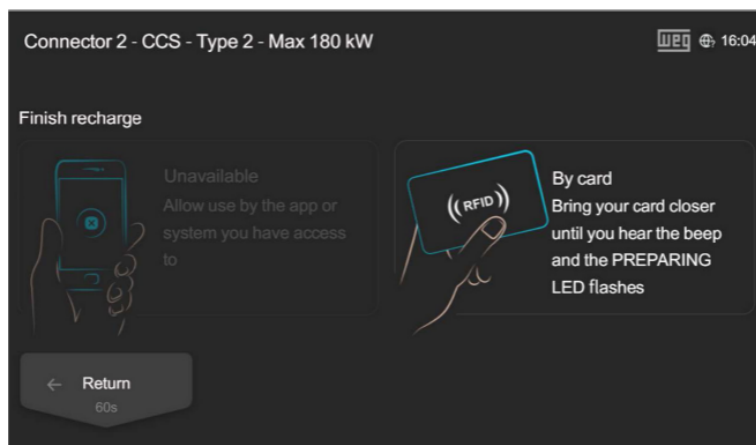


Figure 7.14: End of charging process via RFID card screen

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 connector into the socket located on the front of the station. Do not leave the charging cable on the floor.

7.3 RELEASING THE CONNECTORS MANUALLY

If you have trouble removing the electric vehicle (EV) connector after completing a charging process, follow the instructions below:

- Use the electric vehicle (EV) key remote control to lock and unlock the vehicle doors. In most cases, this will free the connector.
- Some electric vehicle (EV) models have an option on their panel to release the connector.
- The weight of the charging cable may be blocking the release mechanism. Helping support or lift the cable while unlocking the connector may release the connector.



NOTE!

Each electric vehicle (EV) has its own method for releasing the connector. In case of problems removing the cable, we recommend reading the vehicle manual, following the procedure for the model in question.

7.4 CHARGING DETAILS

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



NOTE!

The images of Section 7.4 CHARGING DETAILS on page 7-8 show detailed information on the direct current (DC) charging process using the CCS-2 connector. The same process is valid for the models with CCS-1, NACS and GB/T connectors.

7.4.1 Charging in Progress

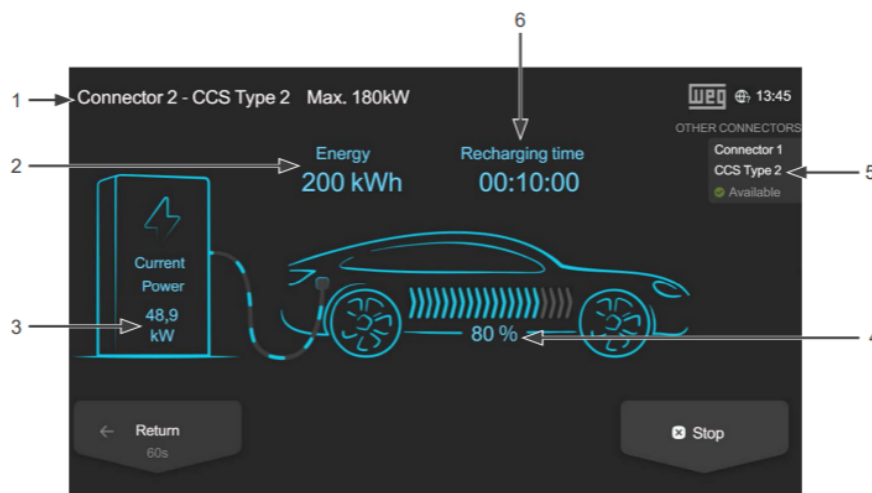


Figure 7.15: Screen with details on the charging in progress

- 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 180 kW.
- 2 - Displays the energy supplied to the vehicle so far, in kWh.
- 3 - Displays the current power supplied to the vehicle, in kW.
- 4 - Displays the percentage level of battery charge.
- 5 - Displays information from other connectors.
- 6 - Displays the elapsed charging time.

7.4.2 Fully Charged

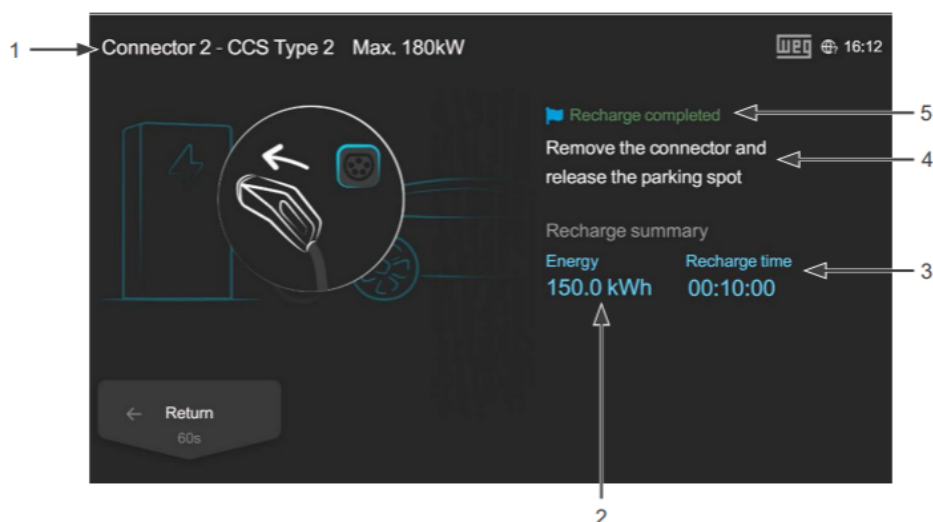


Figure 7.16: Screen with details of a completed charge

- 1 - Displays data of the completed charge on the selected connector. In this example connector 2, CCS Type 2 direct current (DC) charging connector, whose maximum power supplied is 180 kW.
- 2 - Displays the energy supplied to the vehicle, in kWh.
- 3 - Displays the elapsed charging time.

OPERATION

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.

7.4.3 Error When Charging

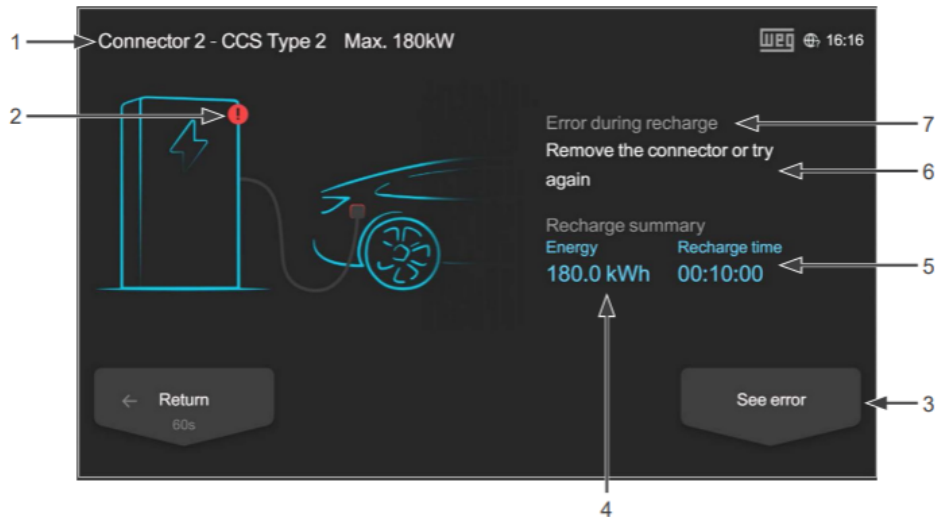


Figure 7.17: Screen with details on a charging process interrupted due to an error

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 180 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.

7.5 CONNECTOR STATUS

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



NOTE!

The WEMOB-STATION (60/80 kW) charging station allows for the simultaneous charging of two electric vehicles. When only one vehicle is charging, the entire nominal power of the station is available to that vehicle. If another vehicle starts charging, the power will be divided between the two vehicles.

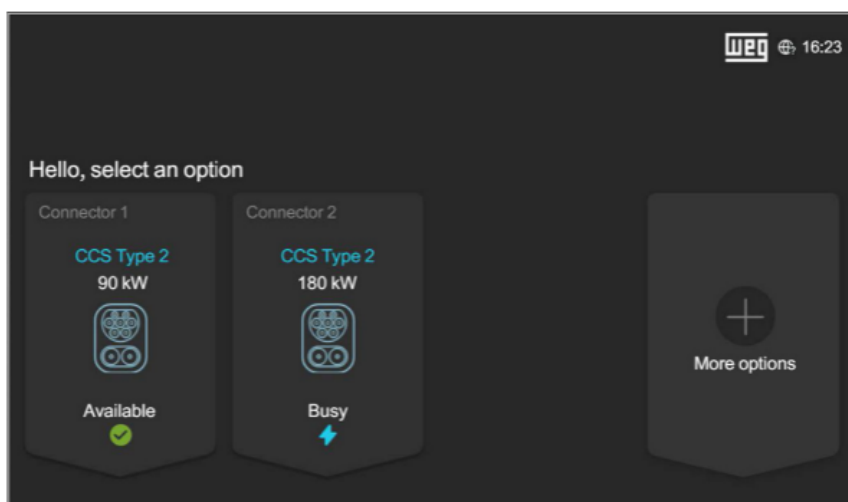
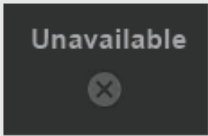
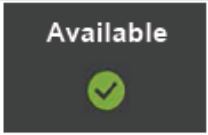
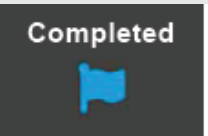
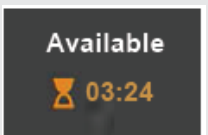


Figure 7.18: Home screen showing the status of each connector

Table 7.1: Connector status indication

Status	Descrição
	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.

7.6 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 Figura 7.19 na página 7-13. 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.

Errors				Page 1 of 1
DATE AND TIME	CODE	DESCRIPTION	STATUS	
03/02/24 13:40	FA02001	Overcurrent	●	Active
03/02/24 13:35	ER04004	Commissioning error	●	Active
12/01/24 09:28	ER04008	Wi-Fi module error	●	Solved
15/11/23 22:53	FA05003	Tag processing failure	●	Solved
10/08/23 11:17	FA06002	Communication failure with the vehicle	●	Solved
05/08/23 03:56	ER18000	Ethernet network error	●	Solved
23/05/23 07:20	ER00002	Hardware failure	●	Solved

Navigation buttons: Return (60s), Previous, Next

Figure 7.19: Error details screen

Errors are classified according to the level of performance:

- Error.
- Fault.
- Warning.

Table 7.2: Types of errors

Performance Level	Identifier	Beep	Action
Error	ER	3 long beeps	An error corresponds to a malfunction of the system or a component. The station has intervened. Turn off the station, and after clearing the condition that generated the error, turn it on again. If the error persists, do not use the charging station and contact an authorized technical assistance service.
Fault	FA	3 short beeps	Some faults might be recovered automatically, without the need to restart the station. To do that, remove the charging connector from the electric vehicle; the status LED of the faulty connector should return to AVAILABLE. If the fault persists, contact an authorized technical assistance service.
Warning	WA	No beep	The warning is an information message. No immediate action required.

8 TECHNICAL DATA

Input Data		
Rated voltage	380–480 VCA ± 10% 3F + PE ⁽²⁾	
Rated frequency	50/60 Hz ± 5%	
Maximum input current ⁽¹⁾	136 A	103 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 VCC	
Maximum output power	80 kW	60 kW
Maximum output current	150 A	200 A
Number of plugs	2 plugs with fixed cables	
Charging cable version	CCS-1, CCS-2, NACS or GB/T	
Mechanical life of the charging plug	> 10000 times	
Charging cable length	4.3 m (169.29 in)	
General Characteristics		
Installation Method	Floor-mounted (ground)	
Cabinet	Metal	
Auxiliary outlet for maintenance	6 A	
Approximate weight	≤ 185 kg	
Status indication	Multicolor status LED	
	Color display 10.1”	
	Beep	
Connectivity	Wi-Fi	
	RFID	
	Mobile (LTE)	
	Ethernet (RJ45)	
Communication protocol	OCPP 1.6 JSON	
Protections	Short circuit	
	Overcurrent	
	Voltage surge (control) via varistor	
	Excessive internal temperature	
	Hardware faults	
	EV communication failure	
	Insulation fault (IMD)	

TECHNICAL DATA

IP54 (Environmental Conditions)	
Protection Rating	IP54 (indoor/outdoor use)
External impact protection	IK10
Operating temperature	-25 °C to 40 °C (-13 °F to 104 °F) (no derating) 41 °C to 50 °C (105.8 °F to 122 °F) (with derating)
Storage temperature	-25 °C to 80 °C (-13 °F to 176 °F)
Air relative humidity	5% to 95% non-condensing
Maximum altitude	2000 m (6561.66 ft) above sea level

Note: Subject to modifications without previous notice.

(1) The maximum input current depends on the purchased station model.

(2) The voltage range may vary in special cases. Always check the product label.

8.1 WEMOB-STATION DIMENSIONS

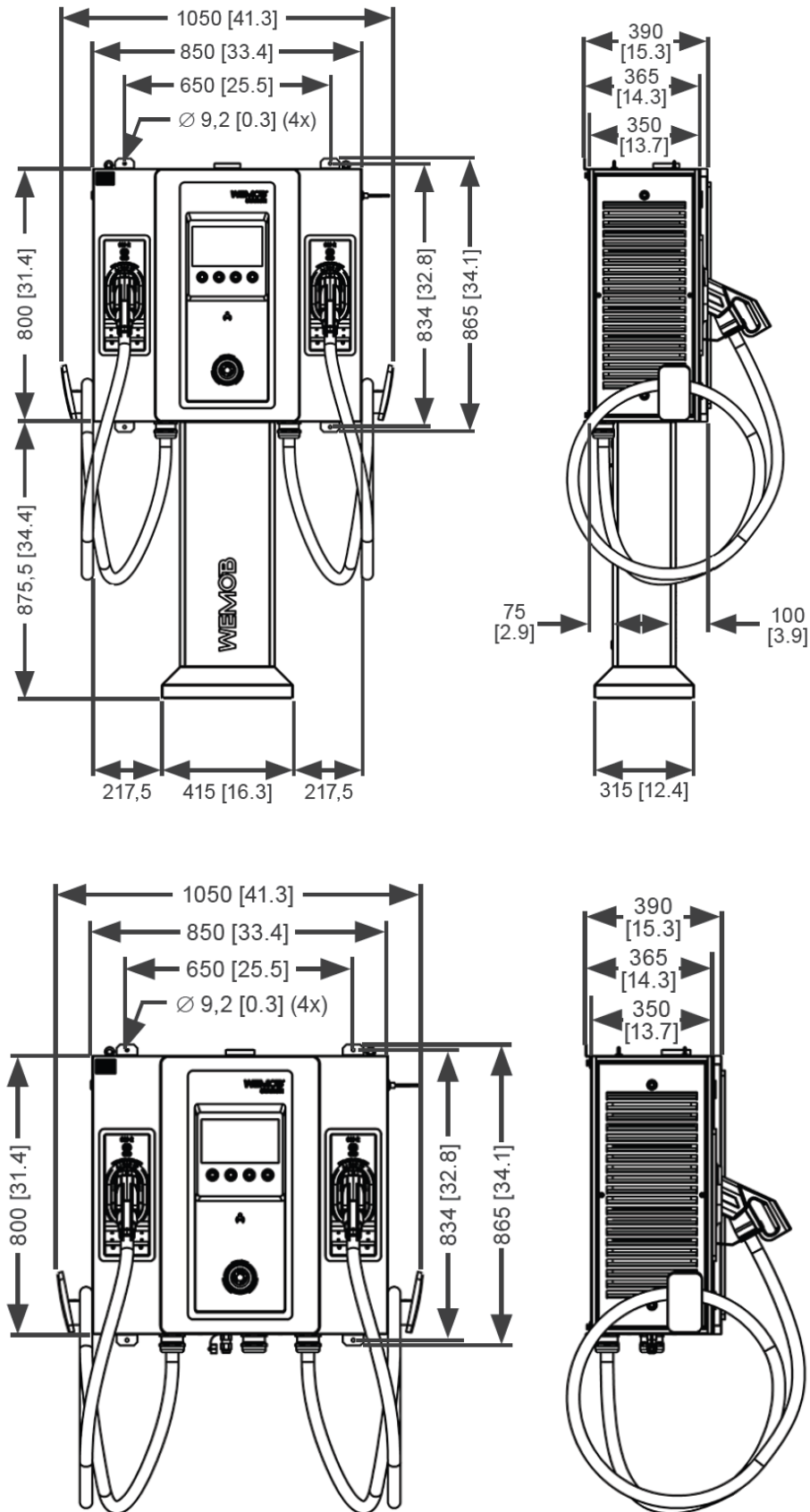


Figure 8.1: WEMOB-STATION (60/80 kW) dimensions in mm [in]

9 ANATEL



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"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".

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