

JOINON EICHRECHT I-CON AND I-ON

GEWISS

JOINON ELECTRIC VEHICLE RECHARGING UNIT



User and installation manual



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1.

INFORMATION ABOUT THIS MANUAL

1.1. FIELD OF APPLICATION

This manual applies for the following charging stations:

I-ON JOINON – Column: OCPP cloud version

I-ON JOINON – Wallbox: OCPP cloud version

I-CON Basic JOINON – Wallbox: OCPP cloud version

1.2. INTENDED USERS

This document is intended for qualified personnel.

When this manual refers to qualified personnel, this means personnel complying with all the standards, directives and laws concerning safety, as applicable to the installation and operation of this device.

The selection of the qualified personnel is always the responsibility of the company that performs the work, as it is the sole party responsible for deciding if a worker is suitable for performing a certain job, thereby ensuring their safety and respecting the applicable law on safety at work.

These companies must provide suitable training regarding the electrical devices for their personnel, and make sure they become familiar with the content of this manual.

1.3. SYMBOLS

This manual uses various symbols to stress and highlight certain information.

Their general meaning is indicated below.



General caution



Electric risk



Prohibition



General information



Refer to the indicated section

2.

DESCRIPTION OF THE DEVICE

2.1. MODELS

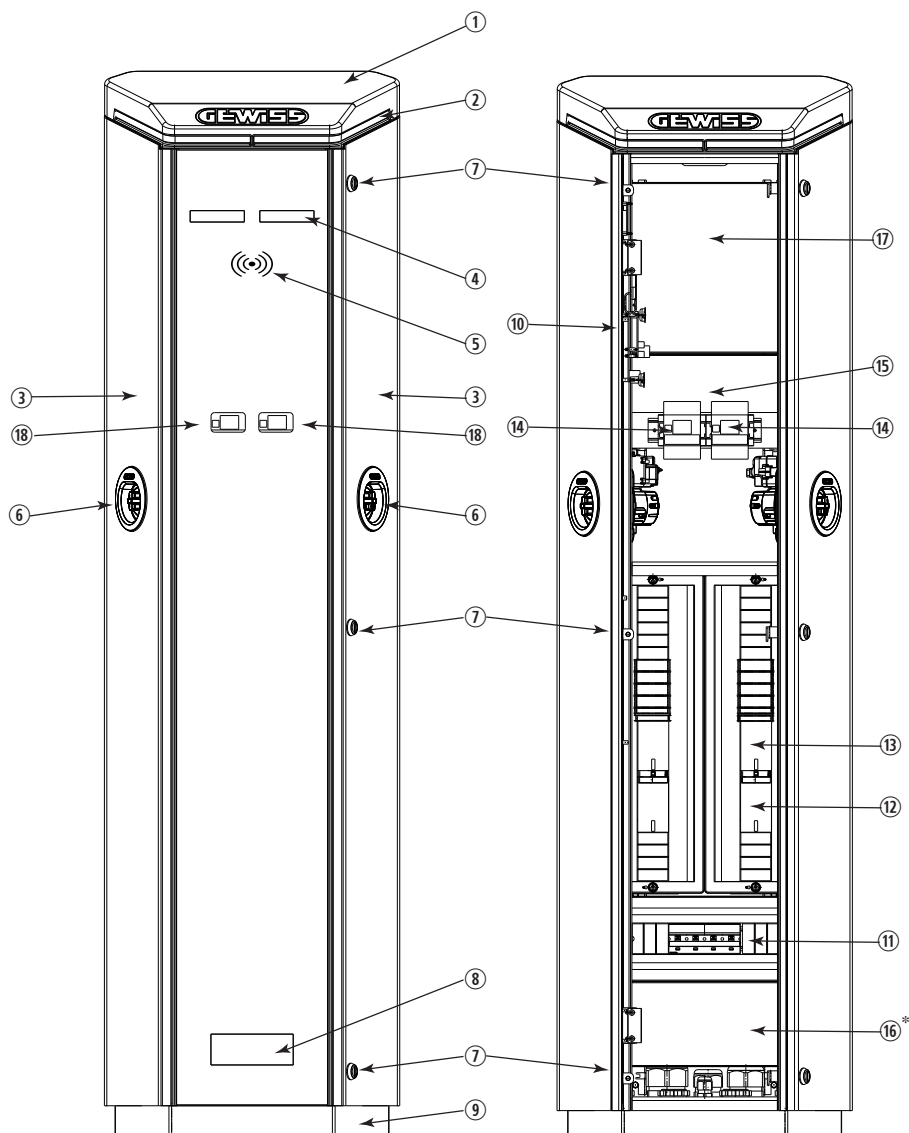
I-ON JOINON – Column: OCPP cloud version

I-ON JOINON – Wallbox: OCPP cloud version

I-CON Basic JOINON – Wallbox: OCPP cloud version

2.2. DESCRIPTION OF THE DEVICE

I-ON COLUMN

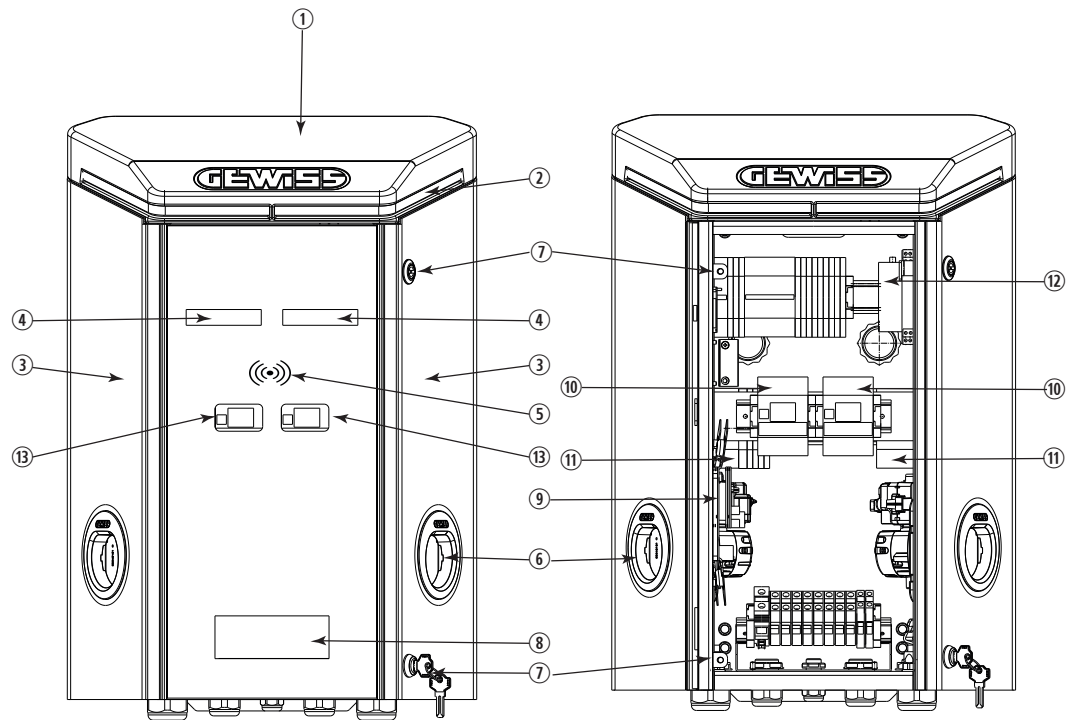


Key:

- | | | |
|----------------------------------|-------------------------|-----------------------------|
| ① Top | ⑦ Lock with safety key* | ⑬ MT* |
| ② RGB LED socket-outlet status | ⑧ Technical label | ⑭ MID energy counter |
| ③ Side instructions | ⑨ Base* | ⑮ Contactor |
| ④ Display | ⑩ Electronic boards | ⑯ Heater* |
| ⑤ RFID reader | ⑪ Main switch* | ⑰ Router* |
| ⑥ Type 2 charging socket-outlets | ⑫ Type B IDP* | ⑱ Windows for energy meters |

* optional accessories

I-ON WALLBOX

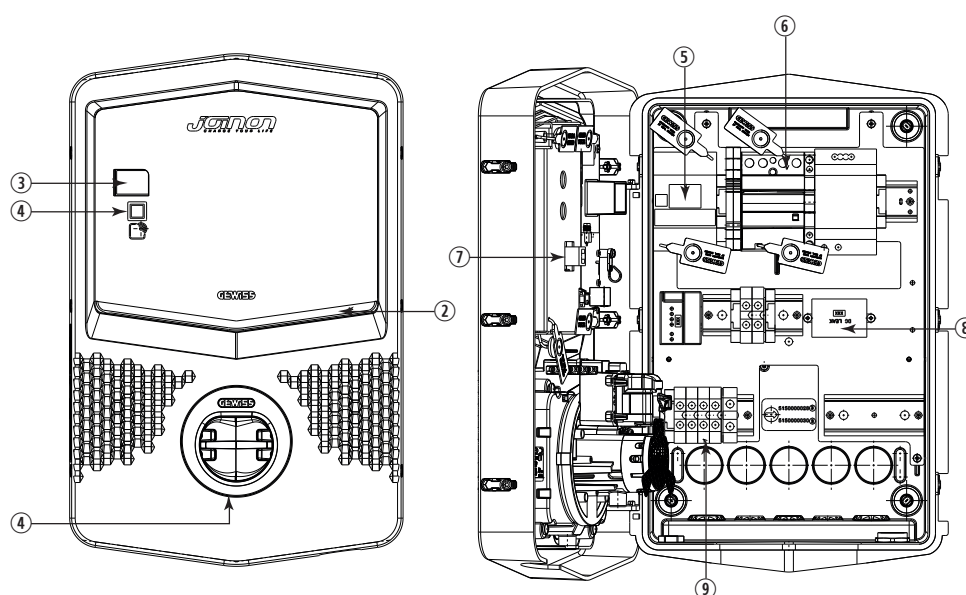


Key:

- | | | |
|----------------------------------|-------------------------|-----------------------------|
| ① Top | ⑦ Lock with safety key* | ⑬ Windows for energy meters |
| ② RGB LED socket-outlet status | ⑧ Technical label | |
| ③ Side instructions | ⑨ Electronic boards | |
| ④ Display | ⑩ MID energy counter | |
| ⑤ RFID reader | ⑪ Contactor | |
| ⑥ Type 2 charging socket-outlets | ⑫ Router* | |

* optional accessories

I-CON WALLBOX



Key:

- | | | |
|----------------------------------|---------------------|--------------------------|
| ① Type 2 charging socket-outlets | ⑤ Energy meter | ⑨ Supply terminal blocks |
| ② RGB LED socket status | ⑥ Contactor | |
| ③ Window for energy meter | ⑦ Electronic boards | |
| ④ QRcode energy meter | ⑧ DC leak | |

2.3. FULFILMENT OF REGULATIONS

CE MARKING

CE marking is essential for marketing the products in question within the European Union and the European Economic Area. The charging stations have CE marking as they comply with the following directives:

- *Low Voltage Directive 2014/35/EU.*
- *Electromagnetic Compatibility directive 2014/30/EU.*
- *RED directive 2014/53/EU (version with RFID and/or GSM).*
- *ROHS directive 2011/65/UE + 2015/863*
- *Measuring Instruments Directive 2014/32/UE*
- *Mess- und Eichverordnung (MessEV) and Mess- und Eichgesetzes (MessEG)*

LOW VOLTAGE DIRECTIVE

The recharging stations comply with this directive as they fulfil the applicable parts of the harmonised standard *EN 61851-1: Electric vehicle conductive charging system - Part 1: General requirements*

EN IEC 61439-7:2020 Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

The charging stations comply with this directive, as they fulfil the applicable parts of the harmonised standards:

- *IEC 61851-21-2 Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems*

RED DIRECTIVE

- *ETSI EN 300 330 V2.1.1 (RFID)*

Mess- und Eichverordnung (MessEV) and Mess- und Eichgesetzes (MessEG)

- EN 50470-3:2006 Electricity metering equipment (a.c.) - Part 3: Particular requirements - Static meters for active energy (class indexes A, B and C)
- VDE-AR-E 2418-3-100:2020-11
- WELMEC 7.2, 2020
- REA 6A
- PTB-A 50.7

2.4. DEGREE OF PROTECTION

These charging stations have an IP55 degree of protection against external agents.

This device is designed for indoor and outdoor use (column and WallBox version).

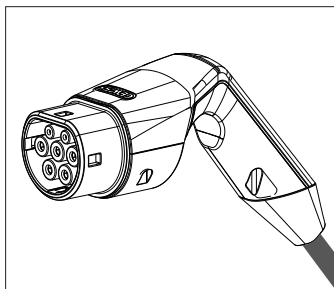
2.5. DEGREE OF POLLUTION

The pollution degree that these stations are designed for is level 3 with reference to Standard IEC 60664-1.

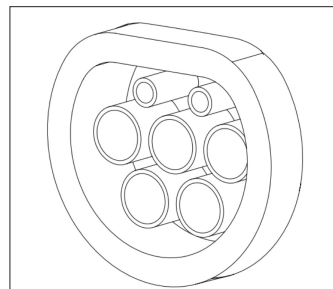
2.6. CURRENT SOCKET-OUTLETS

The charging stations can be supplied with various connector configurations, depending on the customer's requirements.

The following connectors are available:



IEC 62196-2 Type 2 - cable + mobile connector



IEC 62196-2 Type 2

Depending on the model, the column version of JOINON charging stations may have two socket-outlets that can be used simultaneously.

3.

SAFETY FUNCTION

This section describes the safety warnings and the personal protective equipment.

3.1. SAFETY CONDITIONS

General warnings



The operations described in this manual may only be performed by duly qualified personnel.

When this manual refers to qualified personnel, this means personnel complying with all the standards, directives and laws concerning safety, as applicable to the installation and operation of this device.

The selection of qualified personnel is always the responsibility of the company that carries out the work, which is the only party that can decide whether a worker is capable of doing a certain job, thereby ensuring their safety and respecting the applicable law with regards safety in the workplace.

These companies must provide suitable training regarding the electrical devices for their personnel, and make sure they become familiar with the content of this manual.



It is mandatory to comply with the applicable safety laws relating to electrical work. There is the risk of possible electrical shock.

Risk of electric shock.

Compliance with the safety instructions provided in this manual or by the legislation indicated does not imply exemption from compliance with other specific standards regarding the installation, location, country or other circumstances that concern the device.



The opening of the casing does not imply the absence of voltage inside.

Interventions must only be carried out once the voltage supply to the system has been cut off using a device that can guarantee insulation.

It may only be opened by qualified personnel, following the instructions given in this manual.



It is mandatory to read and understand all parts of this manual before starting to handle, install or use the unit.



Gewiss disclaims all liability for any damage caused by inappropriate use of the charging stations. Any operation carried out on these charging stations that involves a change to the original electrical settings must be authorised by Gewiss beforehand. All such proposals must be examined and approved by Gewiss.



Before carrying out any interventions, cut off the voltage supply to the system using a device that can guarantee insulation.

As the minimum safety measure for this operation, observe the following rules:

1. Cut off the voltage supply.
2. Prevent the reactivation of the power supply.
3. Check there is no voltage.
4. Protect yourself against energised elements nearby, and place safety signals to mark off the work area if necessary.

Until these steps have been applied, the product must be considered powered; no interventions are therefore authorised.

Potential hazards for people

In order to protect your own safety, observe the following warnings.



HAZARD: crushing and injury of limbs.

Always follow the instructions supplied in the manual for device handling and positioning.

The weight of the device can cause injuries if not handled correctly.

Potential hazards for the device

In order to protect the device, observe the following warnings.



During operation, the device requires an air flow free of impurities.
It is vital to maintain the vertical position and keep the entrances free of obstacles, to allow the air flow to enter inside the device.



Before reconnecting the voltage supply after any duly authorised operation, make sure the device is ready to start working. Then, connect it following the instructions in the manual.



Do not touch the boards or the electronic components; the more sensitive components may get damaged or be destroyed by static electricity.
Do not disconnect or connect any terminal while the device is operating. Disconnect and check for the absence of voltage before performing any operation.

3.2. PERSONAL PROTECTIVE EQUIPMENT (PPE)

When working on the device, use at least the following items of safety equipment.

Name	Explanation
Safety footwear	In accordance with <i>UNE-EN-ISO 20345:2012</i> or the latest edition published
Helmet	In accordance with <i>EN 397:1995</i> or the latest edition published
Helmet with a face mask	In accordance with <i>UNE-EN 166:2002</i> or the latest edition published, if there are live elements that can be directly accessed.
Work garments	Close-fitting and non-flammable, in 100% cotton
Dielectric gloves	In accordance with <i>EN 60903:2005</i> or the latest edition published

The equipment or devices used for operations with the system energised must have at least category III-1000 Volt insulation. If the regulations in the location of installation require other types of personal protective equipment, the equipment must be integrated in a suitable manner.

4.

DEVICE DELIVERY AND STORAGE

4.1. DELIVERY

Keep the device packaged until installation.

4.2. DEVICE IDENTIFICATION

The serial number of the device identifies it in an unequivocal manner.

The device serial number is also shown on the technical data plate on the lower part of the front panel.

4.3. DAMAGE DURING TRANSPORTATION

The serial number of the device identifies it in an unequivocal manner. In any communication with Gewiss, reference must be made to this number.

The device serial number is indicated with a data matrix on the technical data label (on the side of the front panel).

If the device was damaged during transport:

- Do not install it.
- Notify your reseller of the damage within 5 days of receiving the device.

If it is necessary to return the device to the manufacturer, the original packaging must be used.

4.4. STORAGE



Failure to observe the instructions provided in this section could cause damage to the device.

If the device is not installed immediately upon delivery, to avoid its deterioration, proceed as indicated below:

- To ensure the charging station is correctly conserved, do not remove the original packaging until it is ready to be installed.
- Deterioration of the packaging (cuts, holes, etc.) prevents the correct conservation of the charging stations prior to installation.
- Keep the device clean (remove dust, wood shavings, grease, etc.), and keep rodents away from it.
- Protect it from water spray, welding sparks, etc.
- Cover the device with a protective breathable material to avoid condensation caused by environmental humidity.
- Charging stations kept in a warehouse must not be subjected to climatic conditions other than those indicated below:

Ambient storage conditions

Minimum storage temperature	-40°C
Maximum storage temperature	70°C
Maximum relative humidity without condensation	95%

- It is very important to protect the system against corrosive chemical products and saline environments.
- Do not store the device where it is exposed to bad weather conditions.

5.

DEVICE HANDLING

During transportation, the device must be protected against mechanical shocks, vibrations, water spray (rain) and any other product or situation that might damage it or alter its operation.



When moving the devices, keep them horizontal.

Do not move the devices by pressing on the recharging socket-outlets.

5.1. TRANSPORT

HANDLING WITH A PALLET TRUCK

At least the following provisions must be observed:

- Set the stations down (still packaged) in a central position in relation to the forks.
- Position them as close as possible to the point where the forks are joined to the upright.
- In any case, respect the instructions given in the pallet truck user manual.

HANDLING WITH A FORKLIFT

At least the following provisions must be observed:

- Set the stations down (still packaged) in a central position in relation to the forks.
- Position them as close as possible to the point where the forks are joined to the upright.
- Make sure the forks are perfectly levelled, to avoid any risk of the device tipping over.
- In any case, respect the instructions given in the forklift user manual.

Only unpack the charging station when you are ready to install it and have brought it to the place of installation. At this point, it can be transported vertically and without its packaging, but only for a short distance.

HANDLING THE UNPACKAGED DEVICE

At least the following provisions must be observed:

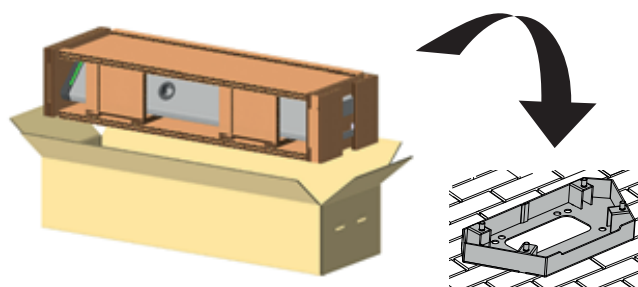
- Follow the fundamental ergonomic recommendations to avoid injuries when lifting weights.
- Do not release the device until it is firmly fastened or supported.
- Follow the indications of another person who is guiding the movements.

5.2. PACKAGING REMOVAL

- The correct handling of the charging stations is very important to:
- Avoid damaging the packaging that maintains their optimum condition, from shipment to the moment they are installed.
- Avoiding knocking or dropping the charging stations as this could jeopardise their mechanical properties.
- Avoid, as far as possible, the vibrations that could cause subsequent abnormal operation.

To allow the installer to prepare the column fixing area beforehand, the base is inserted in the packaging in such a way that it can be taken out separately from the charging unit.

The base can therefore be removed from the packaging and installed on the ground, attached to the tie-rods embedded in the cement or to the anchor plugs already fitted in the ground (as shown below):



DISPOSING OF THE PACKAGING

The packaging is 100% cardboard, and can be taken to an authorised sorted waste collection point.

6.

PREPARATION FOR DEVICE INSTALLATION

When deciding the location of the device and preparing for its installation, a series of instructions linked to its properties must be followed.

6.1. ENVIRONMENT

- Position the charging station in a location that can be accessed for installation and maintenance, which permits its use and the reading of the LED indicators.
- Do not position any material sensitive to high temperatures in the immediate vicinity of its air outlet.
- Avoid corrosive environments that could have an influence on the correct operation of the device.
- It is prohibited to leave any object on the device.
- In the case of connected devices, avoid positioning them near metal fences or walls which could cause signal disturbance problems.

6.2. ENVIRONMENTAL CONDITIONS

The following table shows the device operating conditions in the standard configurations and with the accessories (fan and heater):

Environmental conditions	Column and WallBox
Minimum storage temperature	-25°C
Maximum storage temperature	50°C
Maximum relative humidity without condensation	95%

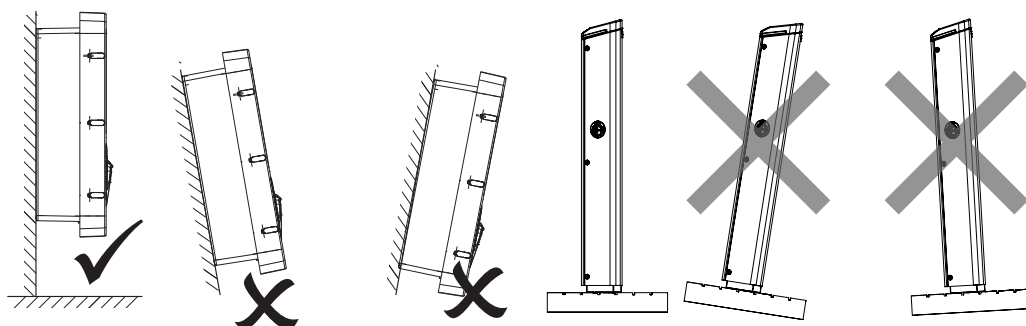
Remember that it could occasionally produce a small amount of condensation as a result of temperature changes. Therefore, in addition to the protection it has, the charging stations must be monitored when they are used in areas where it is probable that not all the previously indicated conditions will be satisfied.

Never connect the device to the voltage supply when there is condensation.

NB= If the ambient temperature is higher than 40°C, a cover must be installed to protect the device from direct sunlight.

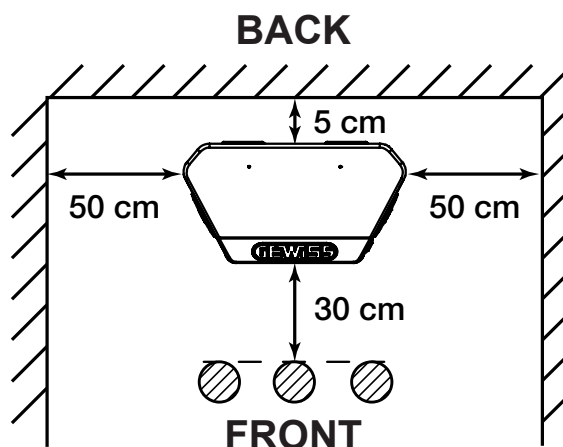
6.3. SUPPORT AND FIXING SURFACE (I-ON FLOOR-MOUNTING VERSION)

Ensure there is a firm, even surface for anchoring the device, which must be perfectly vertical.

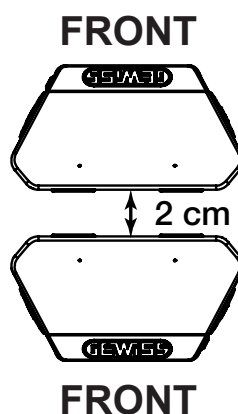


The installation surface must be suitably prepared according to the type of ground, to guarantee that the device is stable during use. You are therefore advised to use the base supplied (column version), fixing it to the ground by means of tie-rods (not supplied) or plugs, or embedded in cement.

Install the charging station in the prepared area, maintaining the necessary distance between it and the surrounding area (as shown in the figure).



The charging column can be installed in back-to-back configuration with another column, to make the best use of the space available. This particular configuration requires only one power supply line and a single plinth for the installation of two devices, as shown below:



There must be a minimum distance of 2cm between the back panels of the two charging units.

NB= The surface on which the charging station is to be installed must be designed and built in accordance with the standards and the regulations in force, to ensure the safety of users regardless of the type of surface.

7.

INSTALLING AND CONNECTING THE DEVICE

Before proceeding with device installation, remove the packaging, paying particular attention to not damage the casing.

Make sure there is no condensation inside the packaging. Otherwise, install the device only when it is completely dry.



All the installation operations must be carried out in compliance with the directive in force.



All operations that involve moving large weights must be done by two people.



The connection must only be made by qualified personnel, when the system is disconnected from the power supply.



Scrupulously check that the device is not energised when accessing it inside.



To measure the lack of voltage, use dielectric gloves and safety goggles that are type-approved for electrical risks.



All the installation operations must be carried out respecting the safety regulations and laws in force, and following the instruction manual

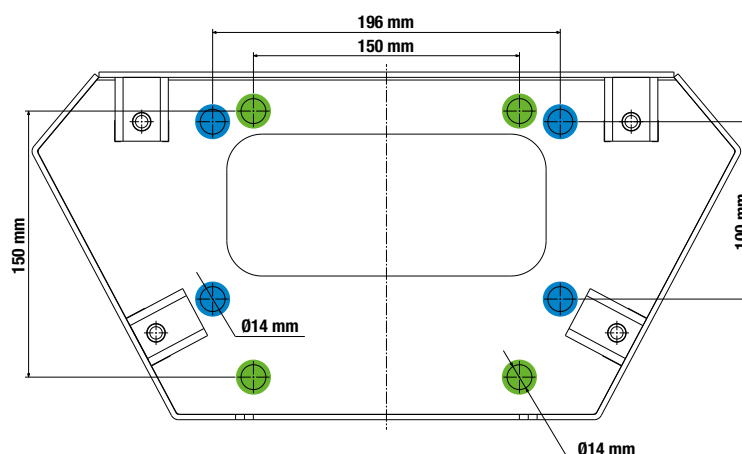
7.1. GENERAL INSTALLATION REQUISITES

- The device must be installed in a suitable environment that satisfies the information described in chapter “6. Preparation for device installation”. Furthermore, the elements used in the rest of the installation must be compatible with the device and compliant with the applicable law.
- The ventilation and work space must be suitable for the maintenance operations according to the directive in force.
- The external connection devices must be suitable and observe the distance established by the directive in force.
- The section of the connection cables must be suitable for the maximum current intensity set on the charging unit.
- Keep external elements away from the air intakes and outlets, as these could prevent correct device ventilation.

7.2. DEVICE INSTALLATION (I-ON FLOOR-MOUNTING VERSION)

7.2.1. MECHANICAL INSTALLATION

- Prepare the assembly area with four tie-rods embedded in the cement (if you are using the fixing plate - accessory GWJ8021 - embed it in the ground). The figure below shows the position of the anchorage point on the device. There are two options for fixing the device in the ground:

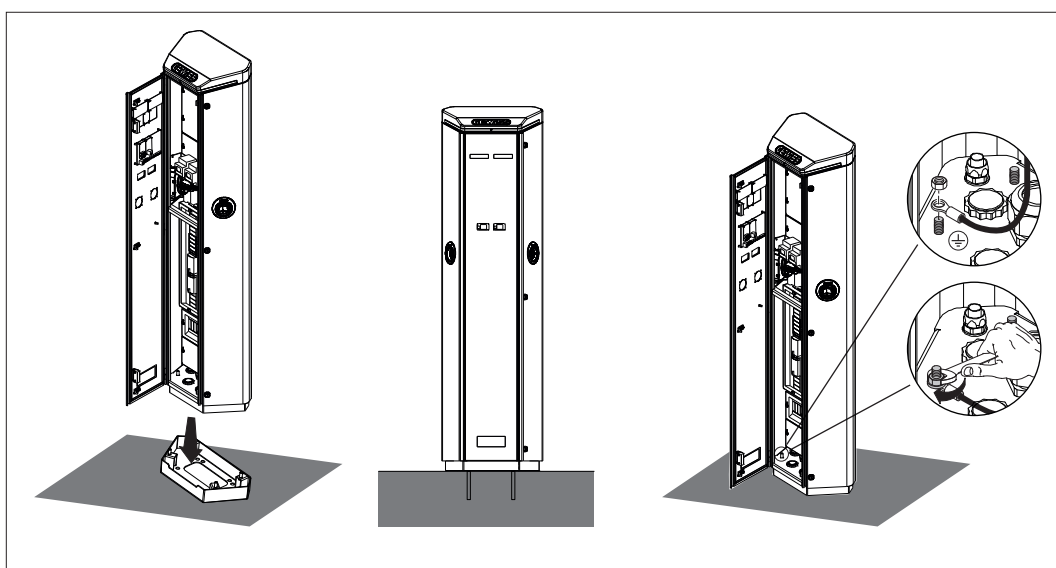


NB= The fixing points highlighted in blue allow this device to be installed in place of the old Parking+ devices.

- These charging stations have a front access door with key opening to facilitate installation and connections. Open the door using the key supplied. The safety key can only be removed when the door is fully closed.
- Couple the fixing base (already fixed to the ground) with the charging station.
- Fix the column on the base, tightening the nuts on the pins indicated in the figure. The maximum tightening torque is 20 Nm.

NB= It's important to complete the earth connection of the base. To do this, insert the eyelet of the earth cable on a fixing pin, then tighten it with the relative nut as shown in the figure.

- Check the device is properly fixed.
- Remove the protective film from the front panel.



7.2.2. CONNECTING THE DEVICE POWER SUPPLY

WIRING REQUISITES

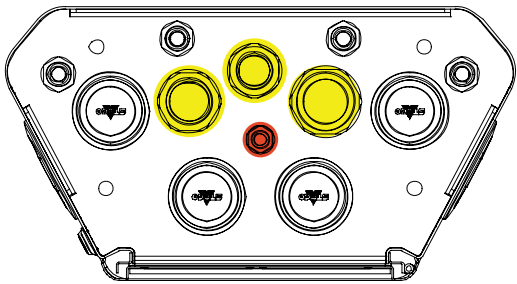
The connection must satisfy certain requisites:

CONNECTION SPECIFICATIONS	
Type of connection	Three-phase
Number of wires	3P+N+E
Rated current	Up to 64A
Maximum wire diameter	1 x 70mm ² (2 x 35mm ²)

NB= The in-out connection can be made for a maximum of 2 columns connected in series.

CONNECTION PROCEDURE

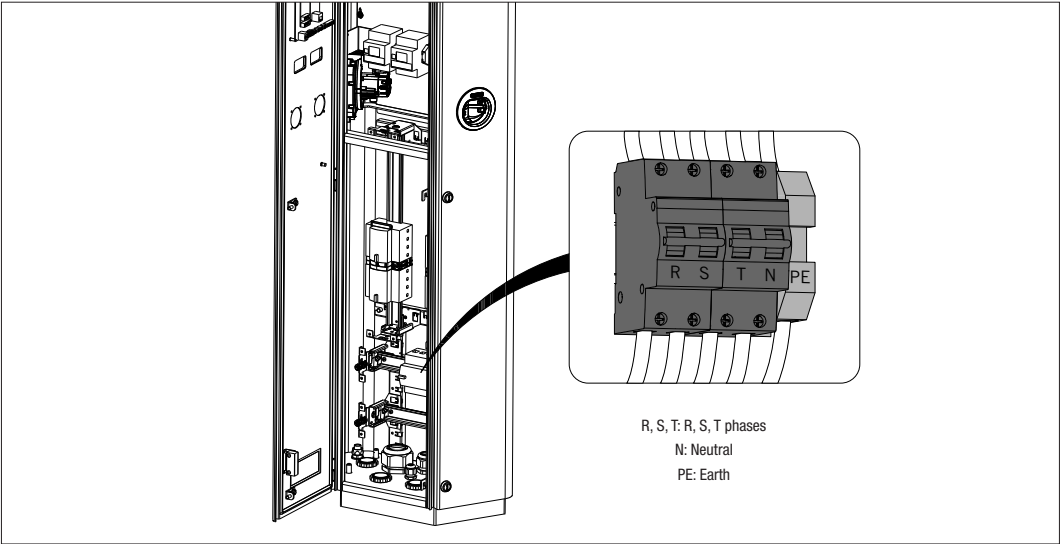
- The charging station is wired by connecting a single-phase or three-phase cable inserted in the cable gland. The appropriate cable glands are M50, M40, M32 for the power cables (highlighted in yellow), and M16 for the data cables (highlighted in red).



Depending on the charging unit version, the cable glands and caps supplied are as follows:

VERSION	CABLE GLANDS SUPPLIED	CAPS SUPPLIED
Three-phase 2x 22 kW	M40	M32, M50

- Connect the power supply cables L, N, PE.



- Switch ON the residual current protection and circuit breaker protection, and power the column.
- Check the residual current protection is working properly, by pressing the relative test button key.

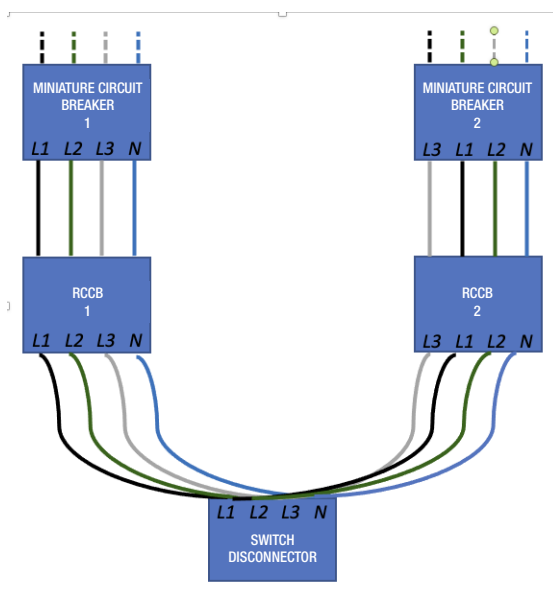
LINE REQUISITES

As the charging stations are equipped with type B residual current protection, or type A [EV] in the version with Restart (as shown in the electrical diagram attached), if a residual current circuit breaker needs to be installed upstream of the power supply line, it must be of the same type.

NOTE REGARDING THE INTERNAL WIRING

To obtain a better balance in the case of single-phase recharges, which can be made simultaneously on both connectors, the internal wiring of the phases has been inverted on the two socket-outlets.

The internal wiring sequence is as follows:



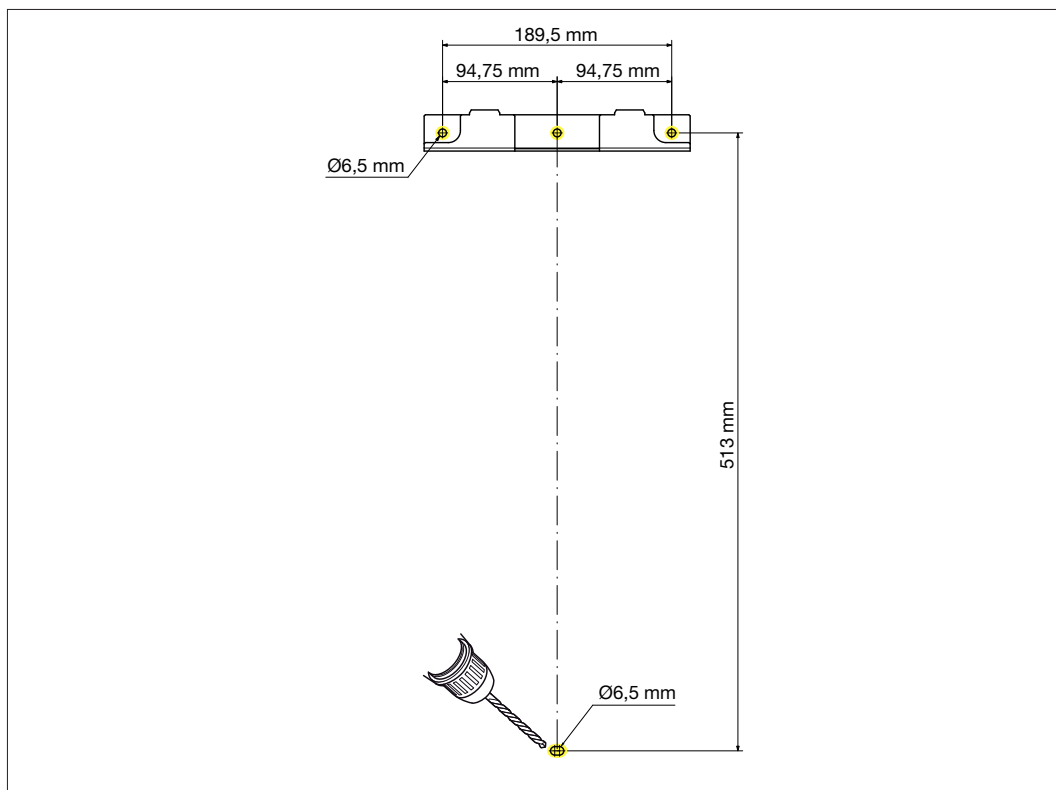
7.3. DEVICE INSTALLATION (I-ON SURFACE-MOUNTING VERSION)

7.3.1. MECHANICAL INSTALLATION

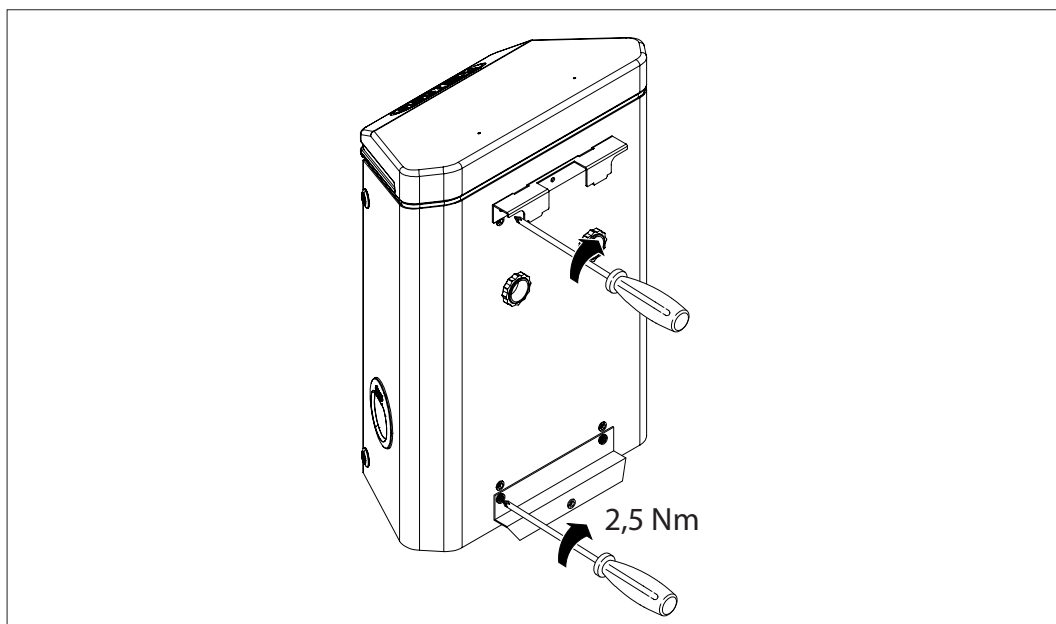
If the product is to be installed on the wall (using the accessory supplied), the procedure is as follows:



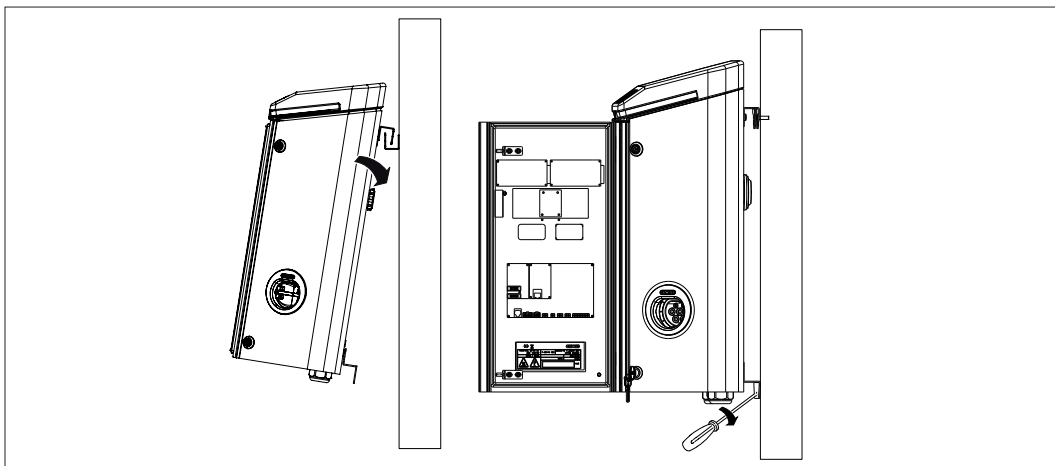
- Prepare the assembly area by fixing the support bracket to the wall, drilling holes with the centre distances shown below:



- Assemble the brackets (supplied) on the back panel of the WallBox:



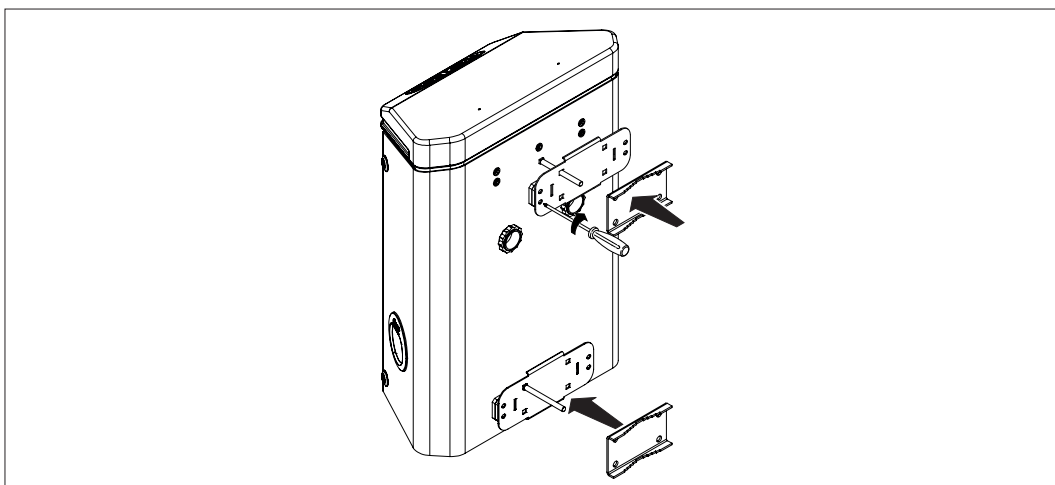
- Assemble the WallBox on the bracket that you have already fixed to the wall. After positioning the product, drill the wall using the lower bracket as your centre point, then tighten the locking screw.



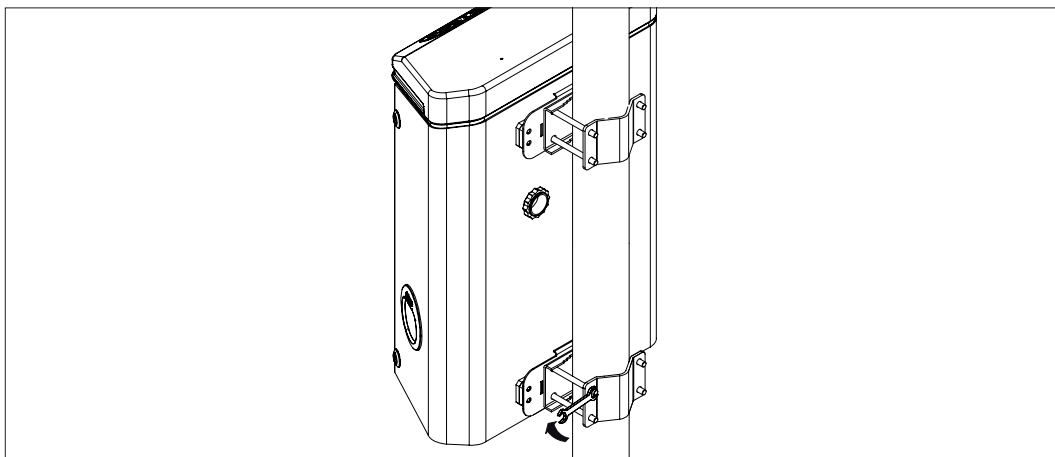
- Check the device is properly fixed.
- Remove the protective film from the front panel.

If the product is to be installed on a pole (using the accessory GW46551), follow this procedure:

- Assemble the support brackets on the back panel of the WallBox, as shown below:

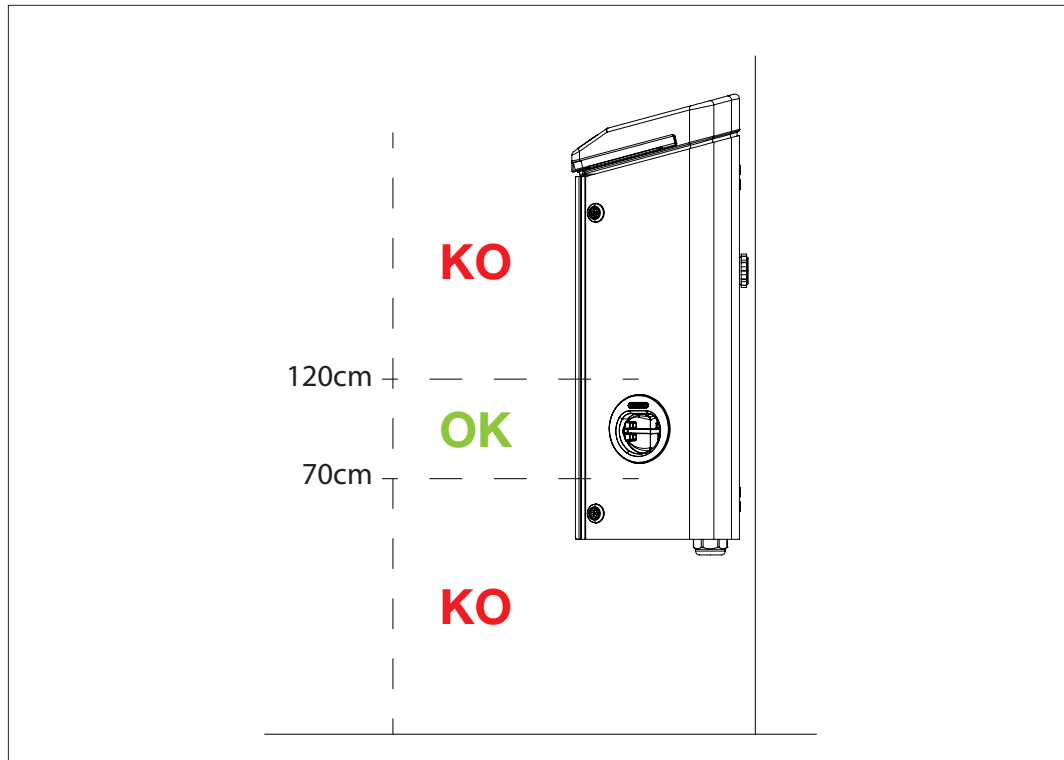


- Position the WallBox on the pole and fix it in place by tightening the locking nuts of the two plates as shown in the figure:



- Check the device is properly fixed.
- Remove the protective film from the front panel.

NB= Whatever the type of installation, it's important that the socket-outlet is assembled at a height between 70 and 120cm.



7.3.2. CONNECTING THE DEVICE POWER SUPPLY

WIRING REQUISITES

In the case of the WallBox charging station, the protection and disconnection of the power supply is upstream. As there is no device inside the product to check the continuous currents, type B (or type A [EV]) residual current protection devices must be fitted upstream.

Each of the two T2 socket-outlets will be powered as per the electrical diagram enclosed with the product.

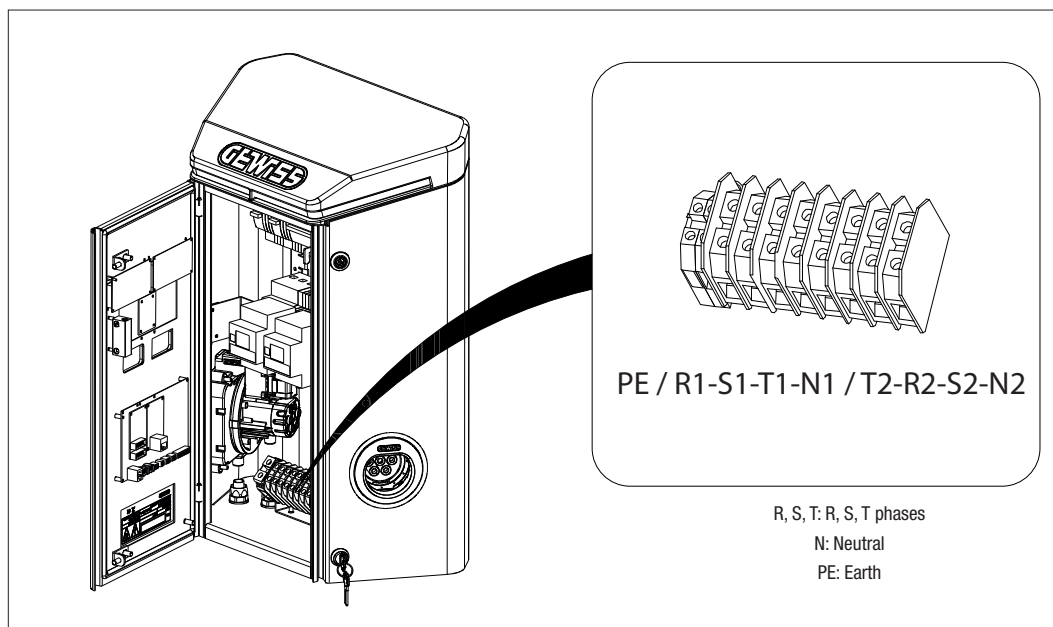
CONNECTION SPECIFICATIONS - POWER PART

Type of connection	Three-phase
Number of wires	3P+N+E
Rated current	Up to 32A (for each line)
Maximum wire diameter	1 x 35mm ² (for each line)

CONNECTION SPECIFICATIONS - SIGNAL PART

Type of connection	Single-phase
Number of wires	1P+N+E
Rated current	Up to 6A
Maximum wire diameter	1 x 6mm ² (for each line)

- To obtain a better balance in the case of single-phase recharges, which can be made simultaneously on both connectors, the wiring sequence to be followed when connecting the station is as shown in the figure; only then is intervention on the switch disconnecter (upstream of the system) required.

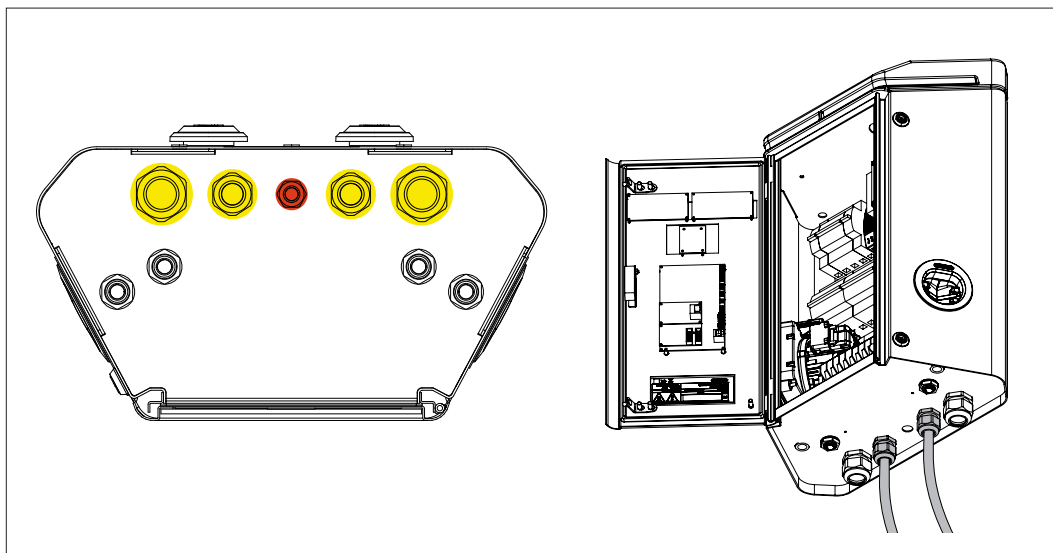


- With regards the connection of the auxiliary circuit that powers the board and the electronic devices, there are two dedicated terminals (L7-N3). It is possible to connect a third line, using a continuity line or installing a jumper between L1/R1 and L7 and between N1 and N3. If necessary, it is also possible to install a double jumper between L1/R1, L2/R2 and L7 and between N1, N2 and N3.

NB= If a jumper is made, a cable with a suitable section must be used.

CONNECTION PROCEDURE

To make the electrical connection, insert the power supply cables in the device. The charging station is wired by connecting the single-phase or three-phase cables inserted in the cable glands. The appropriate cable glands are M25 and M32 for the power cables (highlighted in yellow), and M16 for the data cables (highlighted in red).



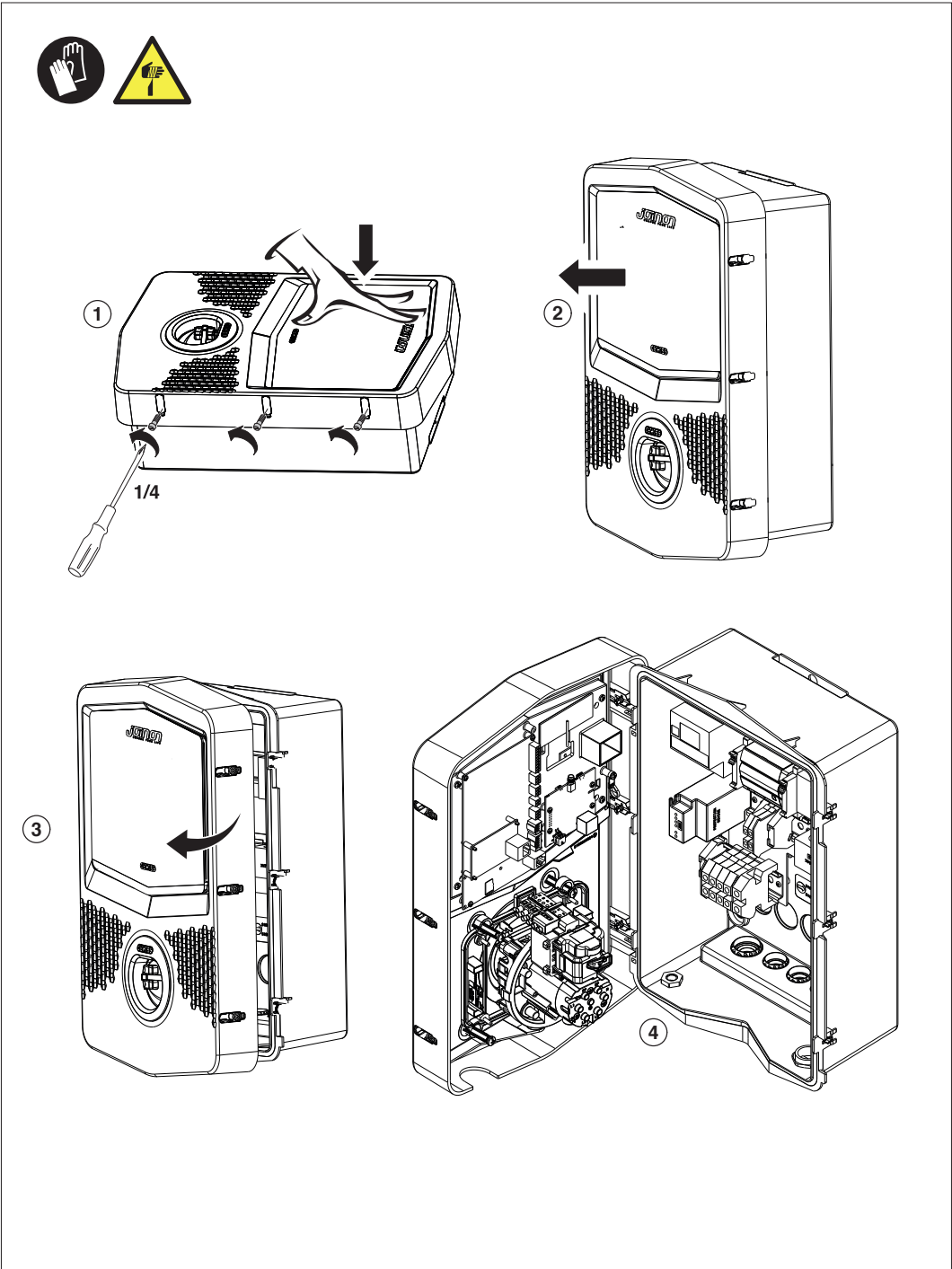
Depending on the charging unit version, the cable glands and caps supplied are as follows:

VERSION	CABLE GLANDS SUPPLIED	CAPS SUPPLIED
Three-phase 2x 22 kW	2x M32	2x M25

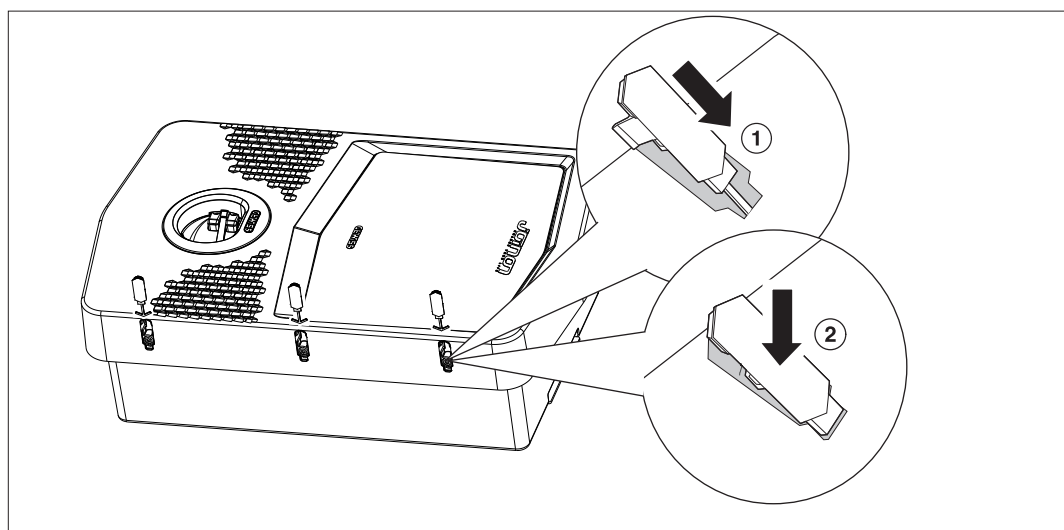
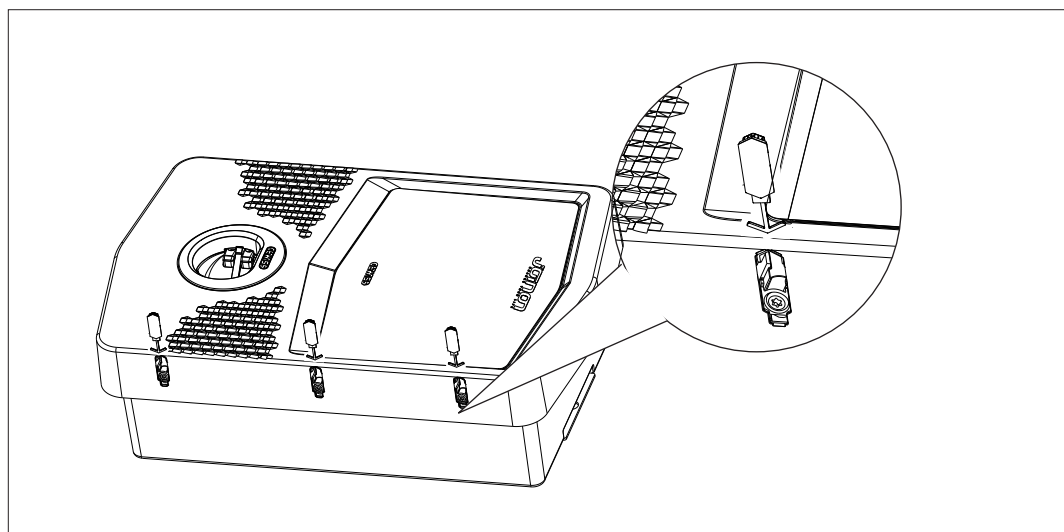
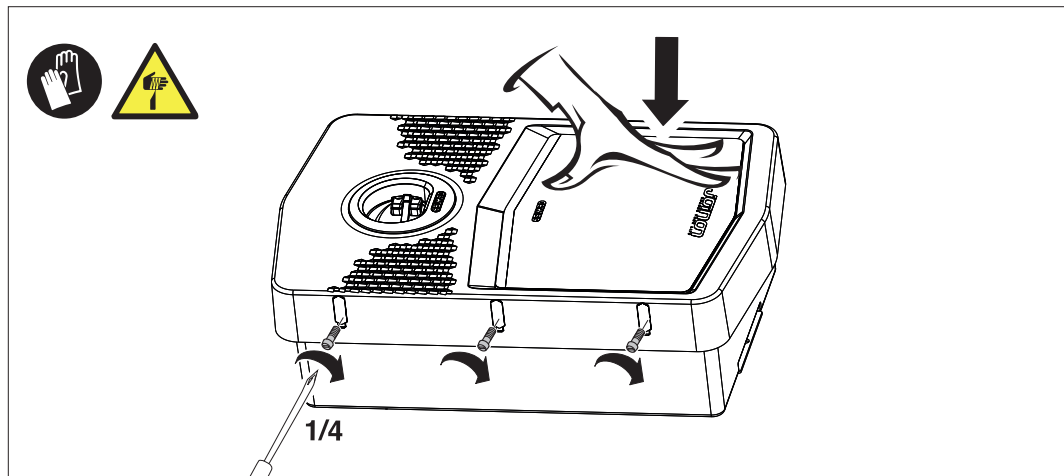
7.4. DEVICE INSTALLATION (I-CON BASIC SURFACE-MOUNTING VERSION)

7.4.1. OPENING THE CASING

To open the casing from the main access, proceed as shown in the following figures.



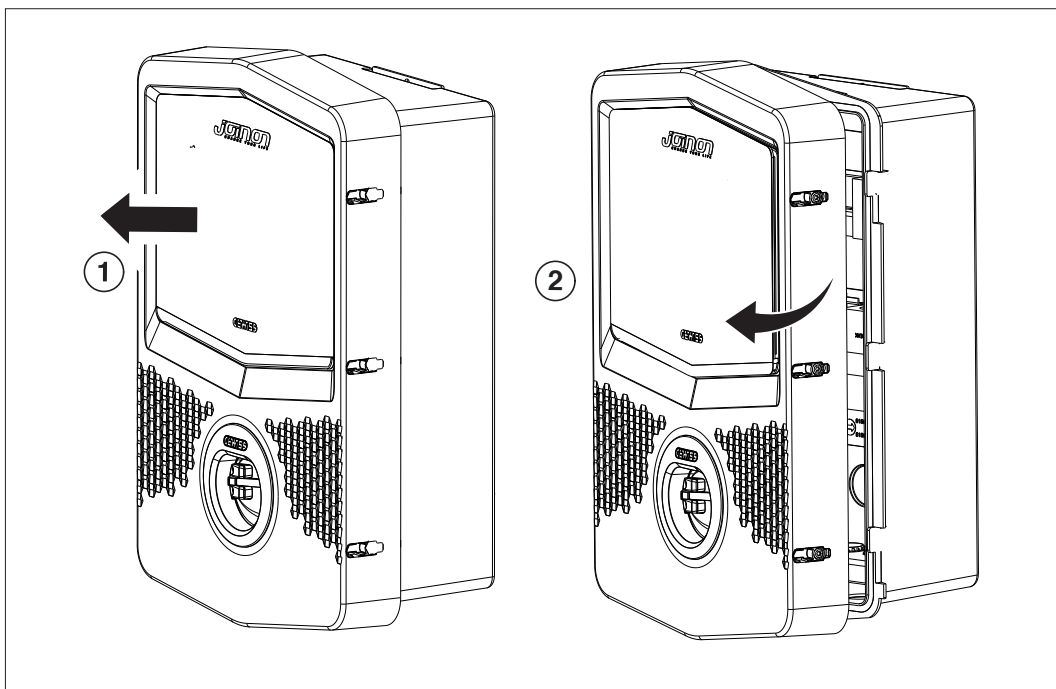
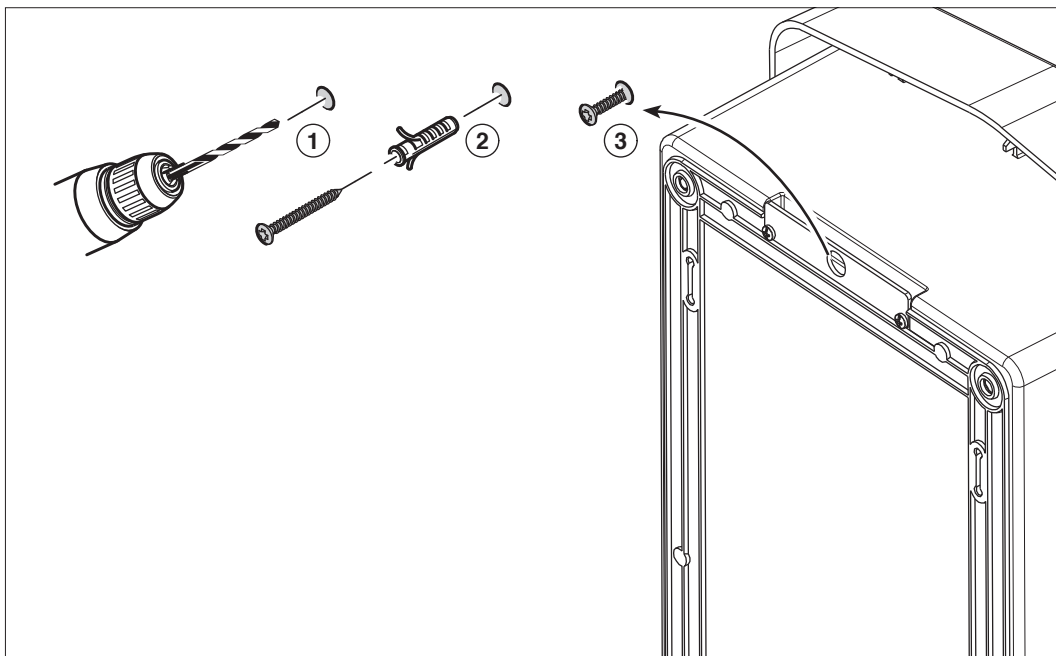
7.4.2. CLOSING THE CASING

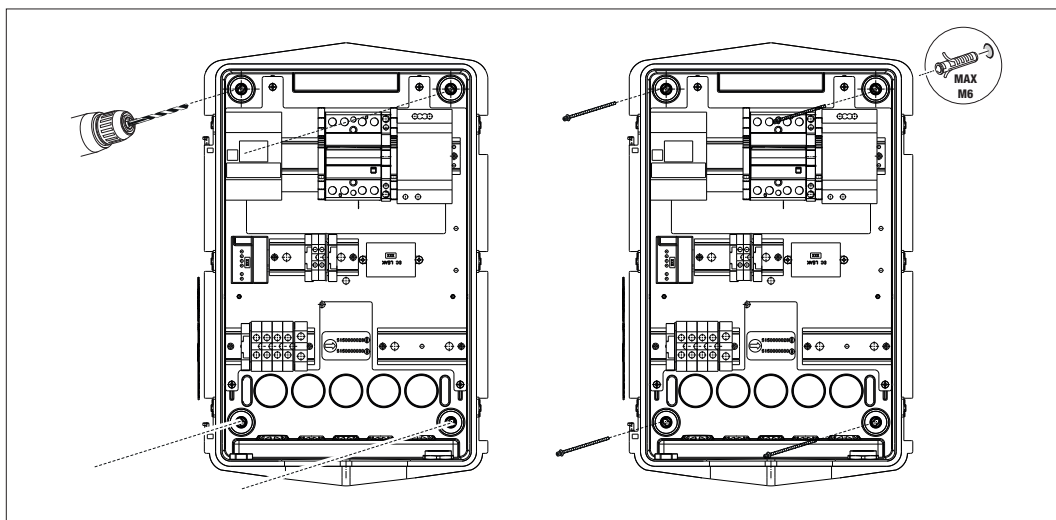


7.4.3. OPENING THE CASING

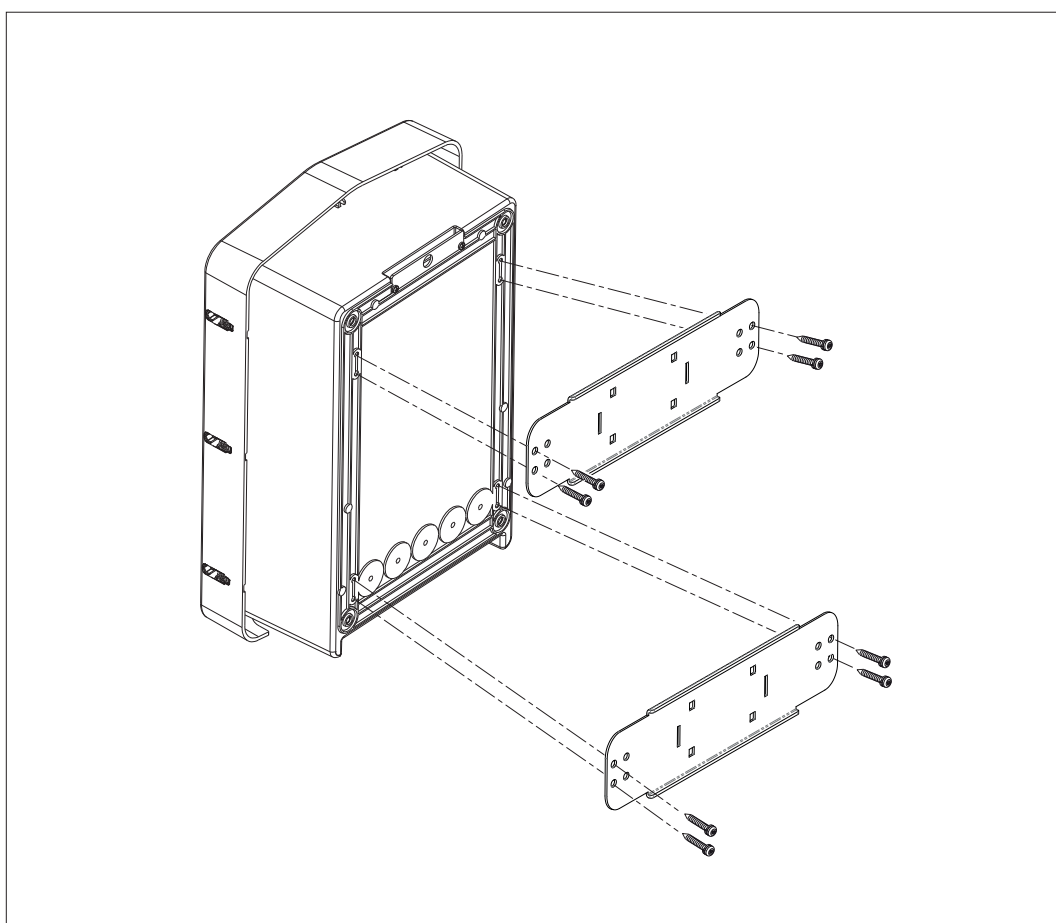
FIXING ON THE WALL

For device assembly, one of the two following solutions can be selected:



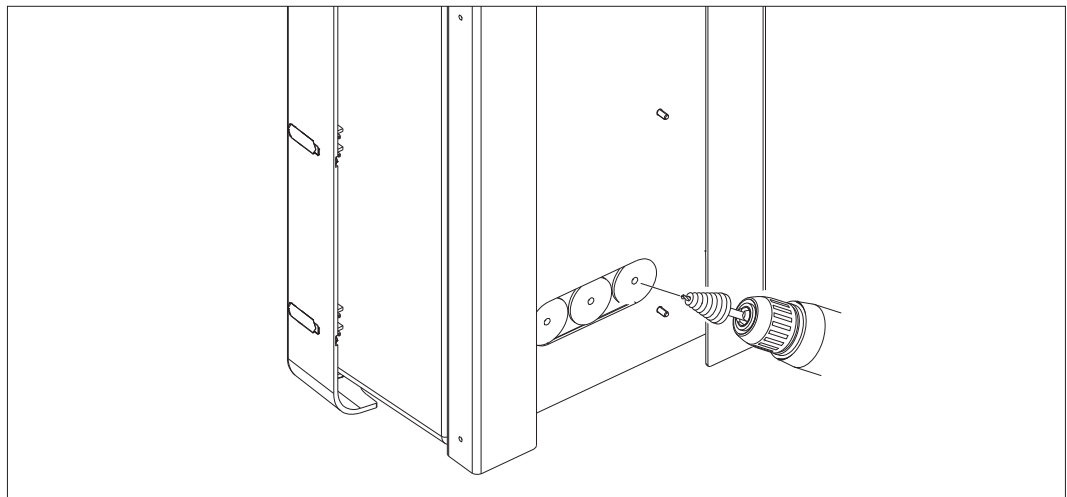
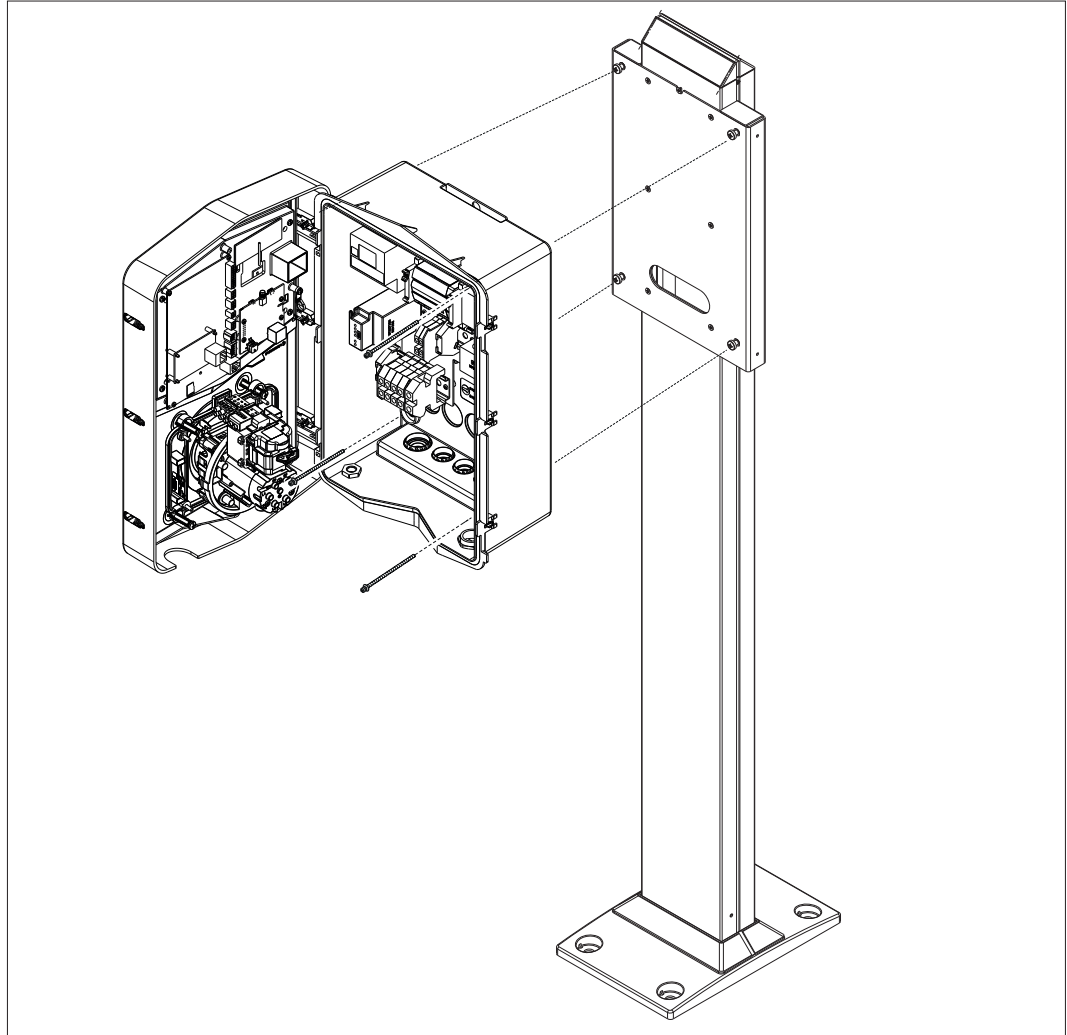


FIXING WITH THE AID OF GW46551 POLE SUPPORT BRACKETS



FIXING TO THE SUPPORT ON THE GROUND

After fixing the support to the ground, attach the column to the plate on the support (using the protruding screw, already installed), then use screws to fix the WB to the plate that includes the threaded rivets.



Cable inlet on the back of the circled area. Make the necessary holes.

7.4.4. CONNECTING THE DEVICE POWER SUPPLY

WIRING REQUISITES

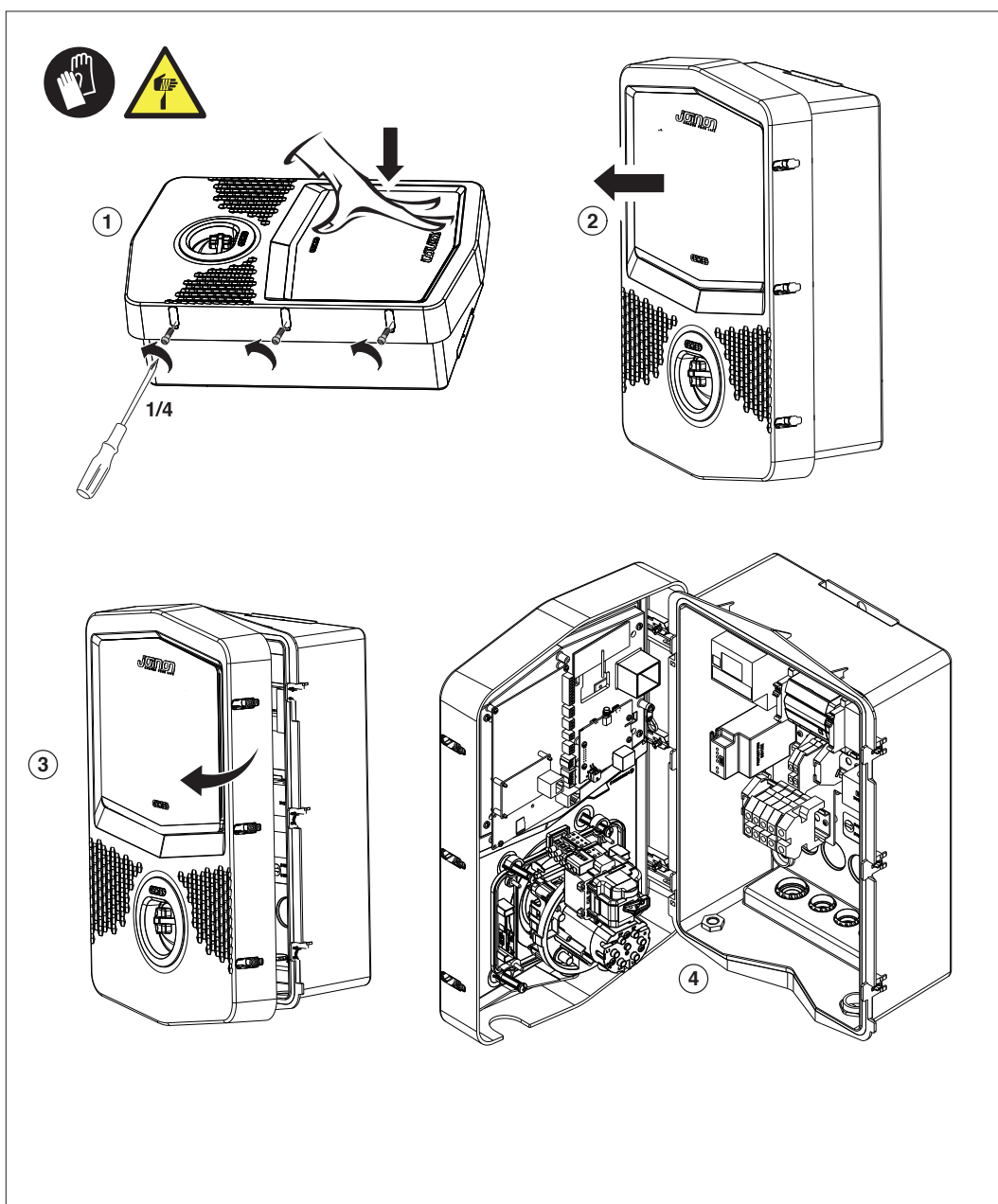
The connection must satisfy certain requisites:

CONNECTION SPECIFICATIONS

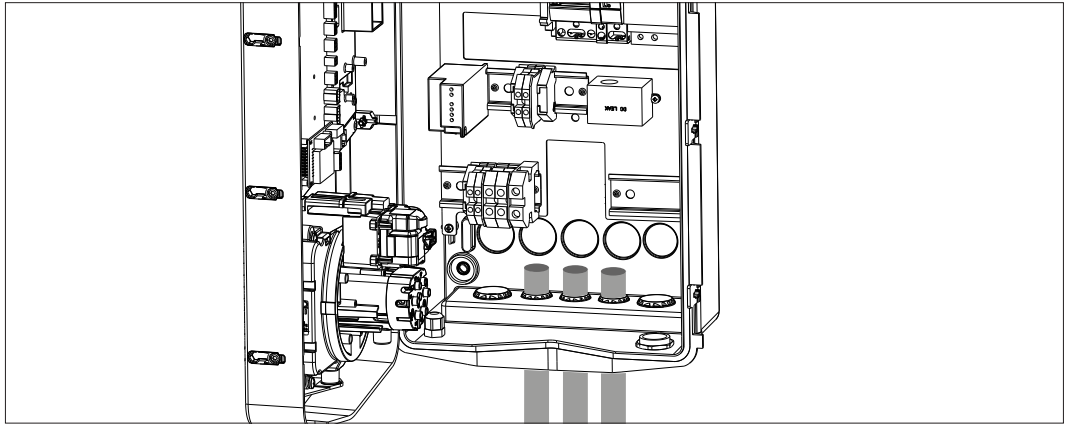
Type of connection	Three-phase
Number of wires	3P+N+E
Rated current	Up to 32A
Maximum wire diameter	1 x 10mm ²

CONNECTION PROCEDURE

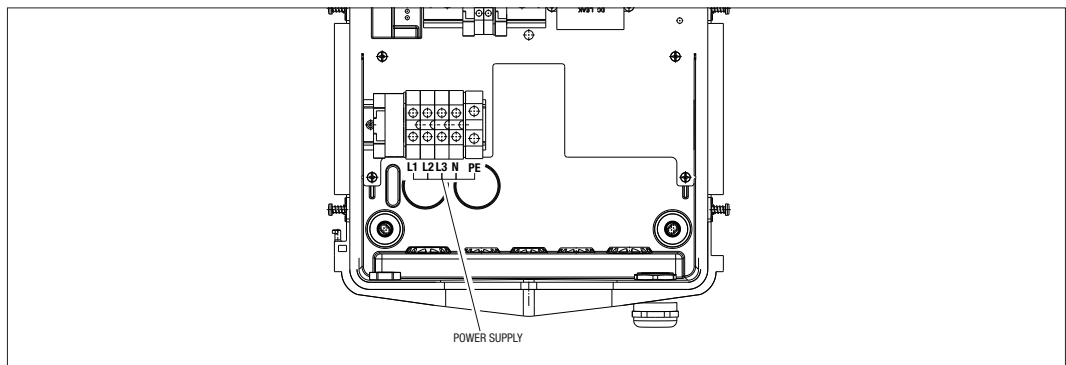
Open the casing as shown in the figure.



Power supply inlet



Connect the power supply and signal cables according to the different models



Once the electrical system is complete, the system is ready to be turned on.

If the station identifies a malfunction, the front status LED will turn red.

PROTECTION DEVICES

Each charging station must be protected upstream by circuit breaker protection and residual current devices required by the low voltage electrical system standard. In particular, each individual station must be protected upstream by a Type A residual current circuit breaker 30 mA + miniature circuit breaker (the choice of device must be suitable for the power level and the power supply of the recharging station). Protection against direct current leakage is provided by the 6 mA DC leakage device built into the products.

8.

CONFIGURATION OF THE CHARGING STATION

8.1. COMMISSIONING

The charging stations must be configured in certain OCPP parameters to complete the connection with the platform.

In particular, the OCPP CHARGE BOX IDENTITY parameter (CBID) must be set so it is aligned with the one used on the platform when the specific charging station is created.

The CBID is made up of: **JN+serial number** of the charging station (e.g. JNG072100000123)

Only personnel authorised by GEWISS may access the charging station, so the specific instructions for setting this value are provided in the relative documentation.

For versions with an internal router, it is necessary to configure the router itself and activate the SIM card that will be used.

For versions with only an Ethernet port and connected to a local network, the connectivity parameters (IPaddress, Gateway, Subnet mask and DNS) must also be set. The end customer is responsible for providing these data prior to the initial start-up of the products, and for making sure there is nothing to hamper the charging station communication.

8.2. PRELIMINARY TESTS

Once the charging station has been electrically connected and the parameters for the connection with the OCPP platform have been configured, specific tests must be run and the results recorded before the station can be freely used.

8.2.1. MATERIAL NEEDED TO CARRY OUT THE TESTS

The following devices and programs are needed in order to test the devices:

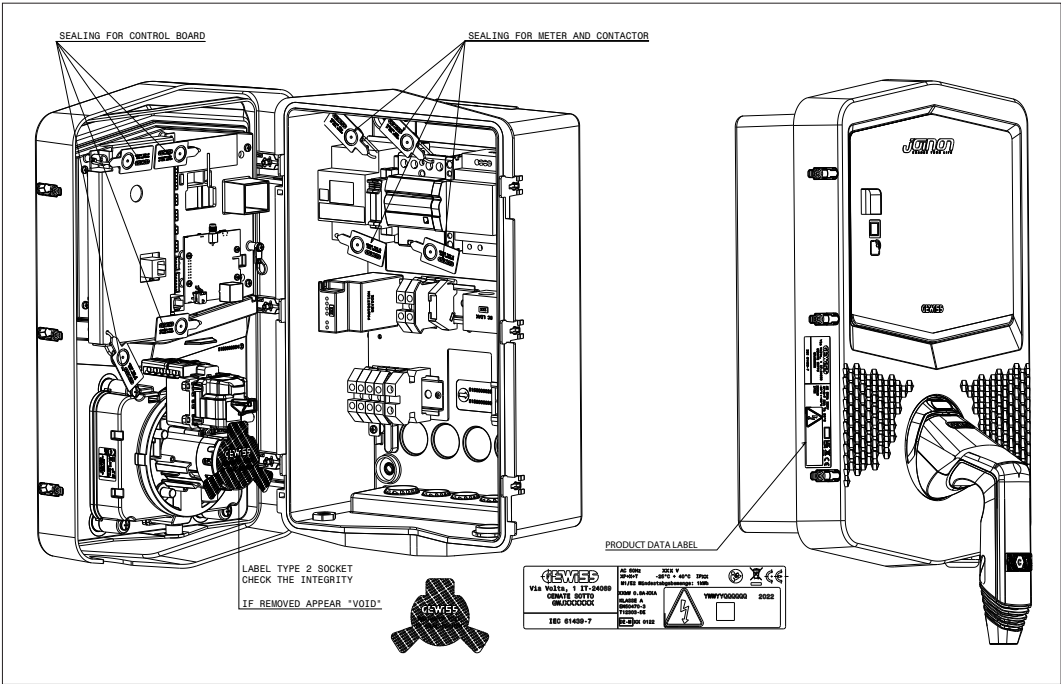
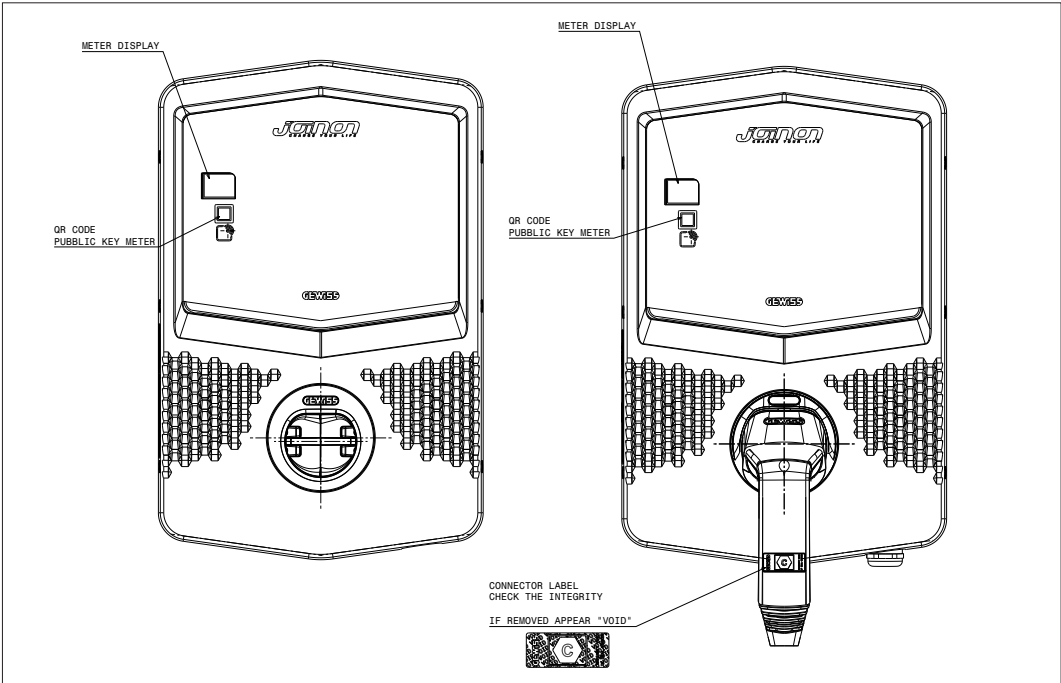
- an electric test charge that simulates the energy absorption of an electric vehicle
- a standard energy counter installed between the test charge that simulates the real charge, and the electric car simulator (this device must be metrologically compliant in accordance with § 47 MessEG)
- an adapter that simulates the behaviour and statuses of an electric vehicle
- all the means necessary to launch a recharging session, i.e. the JOINON app (with relative account and credit) and an RFID card (optional, given that JOINON does not provide its customers with cards)
- computer with Internet access in order to use the JOINON platform and TRANSPARENZ SOFTWARE
- TRANSPARENZ SOFTWARE

8.2.2. QUALITY CONTROL

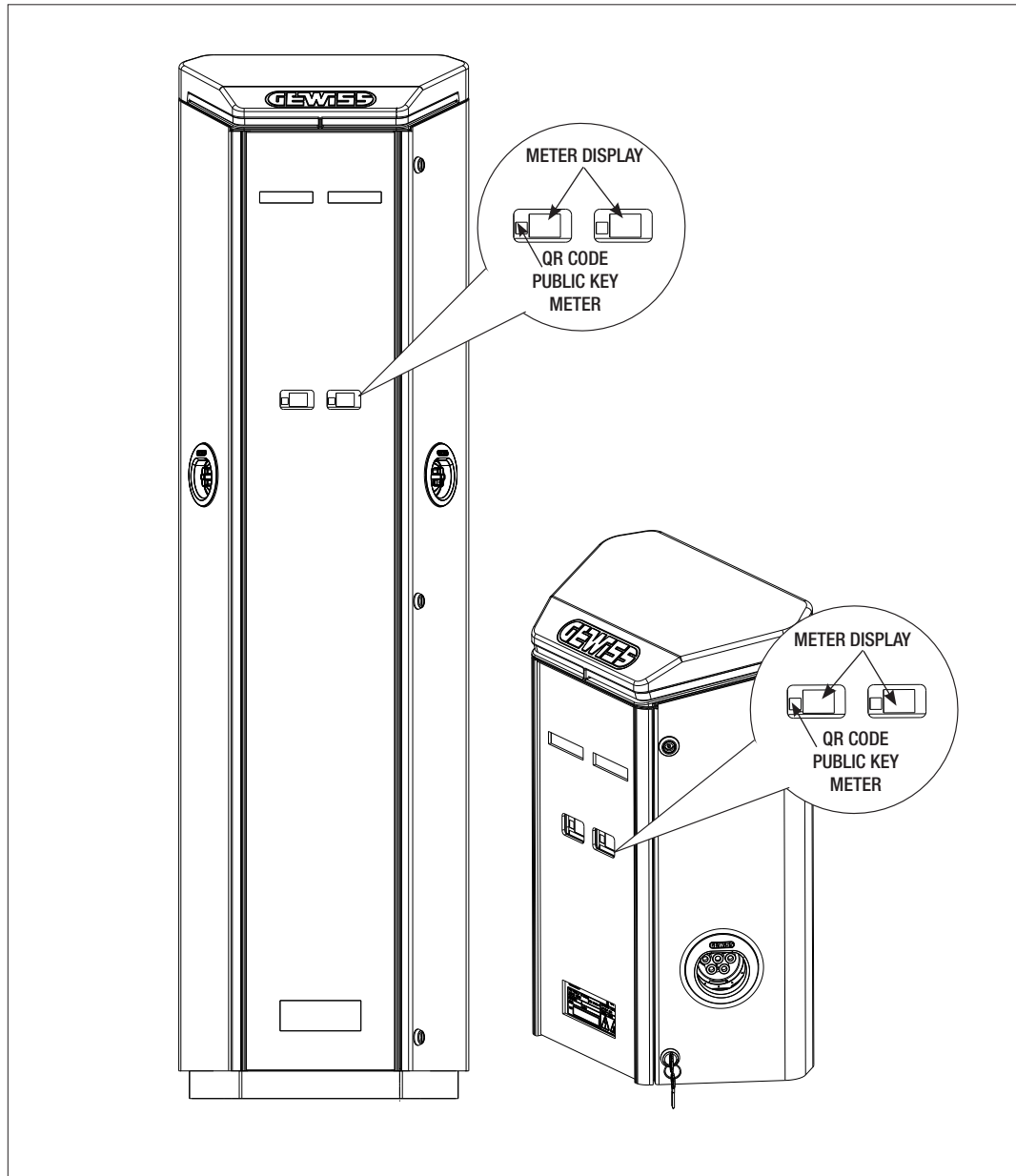
The charging station must be checked to ensure it complies with German law. In particular:

- the physical structure of the recharging device
- the counter used / additional module
- stamps / seals / seals
- inscriptions on the plate

WALLBOX ICON



ION COLUMN AND WALLBOX



8.2.3. OPERATING TESTS

Before allowing the charging station to be freely used, precision tests must be run.

In particular, these tests are carried out:

- on all the charging socket-outlets or mobile connectors on the charging station
- using all the means that can be adopted to launch a recharging session on the station connected to the JOINON platform

To run the tests, proceed as follows:

- Switch on the charging station and wait for the connection to the platform to be completed (LEDs indicate the status of the station, but this can also be verified via the platform)
- Open the JOINON app and select the QRcode scan function, then frame the QRcode on socket-outlet 1
- Begin the charging session from the relative page shown on the app
- Having prepared the car simulator, the relative electric charge and the energy counter between the two, you can now insert the simulator plug in the socket-outlet (just released)
- Launch the charging session, intervening on the statuses on the electric vehicle simulator
- Wait until at least 1 kWh has been charged
- Monitor and control the energy data on the energy counter display inside the station, comparing them with the data registered by the external counter
- When a value of 1 kWh has been reached, end the session via the app
- Check the energy data measured by the 2 counters are the same
- Run the same procedure on the second socket-outlet (if fitted)
- If a tag RFID is provided, run the same procedure on the sockets starting the sessions with the tag
- Once all the necessary charging sessions have been carried out, the authenticity of the data can be verified
- Go to the JOINON platform and enter with the one-off credentials you have received.
- Go to the recharging log and identify the latest recharging sessions
- Explore the details of each single session to obtain the information that has to be entered in the TRANSPARENZ SOFTWARE; the information required is the data record of the relative meter in OCMF and PUBLIC KEY.
- Open the TRANSPARENZ SOFTWARE and paste the data of the specific charging session
- Check the data; the expected result is that the data check is successful

8.2.4 RETRIEVING THE EVENT LOGGER

The internal log records the normal activity of the EVSE and all the error conditions occurred. Each entry of the log has its own timestamp (the UTC sent by the platform according to the OCPP specifications) and reports the entity involved (left socket, right socket, left meter, right meter, etc.): in case of full memory (from 2 to 5 years can last before filling the microSD), the EVSE firmware deletes the oldest internal logs.

Given that the internal log is not directly accessible, even if the operator has physical access to the inside of the EVSE, the platform allows retrieving the logs remotely through the Request Diagnostic OCPP command. The platform allows for long-term storage of the data, as well for EVSEs management and data retrieve: it represents the only mean to send the OCPP command, and records every time the operation is executed and by who (Command Log section in the web page of the charging station).

The screenshot displays the JOINON web interface for managing a charging station. The background shows a configuration page with fields like 'Endpoint address', 'Default vehicle', 'SMS price', 'Boot notification', 'RFID mode', 'System list version', 'Local list version', 'Actions', 'LB Site', 'Price sheets', 'Opening times', 'Use opening times for authorization?', 'Limit charge duration?', 'Geo-Site', and 'Remote Start possible'. A modal dialog box titled 'Request diagnostics (Websocket-Internet)' is open in the foreground. It contains a checked checkbox for 'Edit URL Get Diagnostics', a 'Start date' field set to '25/01/2022', a 'Stop date' field set to '28/01/2022', and a 'URL' field set to 'https://joinonstorage.blob'. An 'Execute' button is at the bottom of the dialog. To the right of the dialog, a date range '(26.05.2020 - 31.05.2030)' is visible.

From the platform is possible to select a range of log files to retrieve, and to specify in which cloud services upload the files. The log file is sent to the platform using https connection (secure with TLS cryptographic), and the process is logged in the microSD with status information and feedback about the outcome of the operation. Once the upload is completed, authorized personnel can download the logs from the cloud.

9.

CHARGING STATION OPERATION

The recharging stations can only work in OCPP CLOUD mode, and must be connected to the JOINON platform. OCPP CLOUD mode allows direct access to the station via the JOINON app, which can be used to find the required recharging station and begin the charging session.

To begin the session, it is necessary to have registered and then accessed the app, and to have topped up your electronic wallet.

The information that the station sends to the JOINON platform allow the recharging data to be checked via the TRANSPARENZ SOFTWARE, as indicated by the regulations in force in Germany.

Although the station communicates with the platform via the OCPP protocol, the station cannot be connected to third party platforms.

NB= While waiting for the commissioning procedure to be carried out to connect the station to the JOINON platform, as a temporary measure the station can be used in AUTOSTART mode (with the relative setting of the DIP SWITCHES on the electronic board).

In this operating mode, the station does not record the consumption values and does not communicate with any platform. The recharging sessions can be managed in FREE mode.

10.

STATUS INDICATORS

The JOINON charging stations have at least one tool for informing the customer about the status and the actions required; the indications vary between the I-CON and I-ON versions.

10.1. RGB LEDS

The charging stations have one or two (depending on the model) RGB LEDs for each socket-outlet.

Their colour changes to inform the client about the status of the station and the actions that need to be carried out. The colour change may be on one side only or on both, depending on the situation.

LIGHTING	DESCRIPTION
Fixed green	The station is ready to start a charging session. No problem detected.
Flashing green	The station is waiting for the charging plug to be connected, and the connection with the car or The charging station is waiting for the charging cable to be removed, disconnecting the car and ending the charging session.
Fixed blue	The charging session is in progress and the car is absorbing energy.
Flashing blue	The charging session is in progress, but the car is not absorbing energy (charging terminated, or car not ready for recharging).
Fixed red	An internal error or a connection error with the car was detected by the station and the charging process cannot be continued.
None	The station does not have the necessary electrical power supply.

10.2. ALPHANUMERICAL DISPLAYS

The displays (only for I-ON models) show various items of information that help the customer understand what actions are required in order to begin or end the session.

NB= During the recharging session, the power and energy data are shown on the display of the specific energy counter.

CHARGING PROCESS	
MESSAGE ON THE DISPLAY	DESCRIPTION
ERROR Invalid card	the RFID card has not been recognised, so the recharging session cannot be started.
Charge enabled Connect the cable	the station is waiting for the charging plug to be connected, and the connection with the car.
Charging ended Unplug the cable	the session has ended and the station is waiting for the cable to be removed.
Charging in progress Details on the meter	the charging session is in progress and the relative details (power and energy) can be seen directly on the energy counter display.
Not in service ERROR XX	The station has detected an internal error, and shows the relative code.
Out of service Technical problems	there is an error that prevents starting or continuing the charging session and therefore it will be ended.

11.

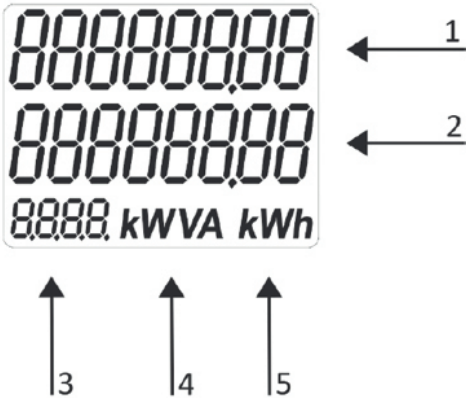
ENERGY METER DISPLAY

11.1. DISPLAY OF THE ENERGY METER INFO

Energy meters have LCD display with following layout.

Layout of LCD:

- 1 Total kWh inport
- 2 User settable line
- 3 4 digit label
- 4 kWVA display
- 5 kWh display



11.2. WELCOME SCREEN OF THE ENERGY METER

LCD segment test



FW identification window
and MID relevant counters:

- 1 MID unlock counter
- 2 FW upgrade counter
- 3 CRC of main FW
- 4 CRC of measuring
modules FW
- 5 FW version



11.3. LCD DISPLAY INFORMATION OF THE ENERGY METER

LCD Display has 2 rows with 8 digitis each and 4 digits label. Display scrolls automatically. Displayed quantities and scroll time can be set via communication by MiQen software. Top row always displays imported active energy consumption.

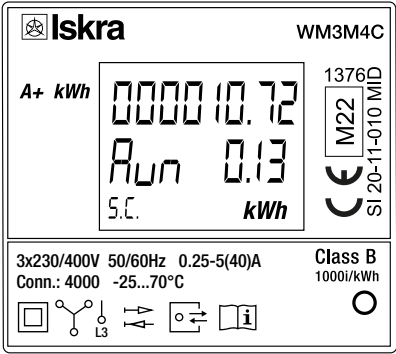
BIT 8	Export active energy counter		STATUS: A-
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The charging station has a transparent window that allows the complete visibility of the front side of the ISKRA meter (display + QR code with the public key).

While the total amount of energy measured by the meter is always visible on the upper side of the display, further pieces of information are provided cyclically by the ISKRA meter display on the second row: all the values displayed are the following.

- **Energy Consumption** – Total energy provided to the EV for the ongoing charging session: the billing of the charging process is based only on that parameter.

BIT 0	Energy consumption		STATUS LCD: 1 st digit: Clock status 2 nd digit: Charging status 3 rd digit: Reserved 4 th digit: Reserved
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Clock Sync Status

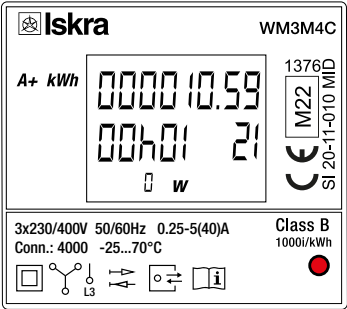
VALUE	CLOCK STATUS	LCD STATUS
0	Not Sync (U)	u
1	Informative clock	i
2	Synchronized clock	S
3	Relative clock	r

Charging Status


VALUE	CHARGING STATUS	LCD STATUS
0	Not Charging (Idle)	I
1	Charging	C
2	Charging after power down	P
3	Charging after meter reset	d

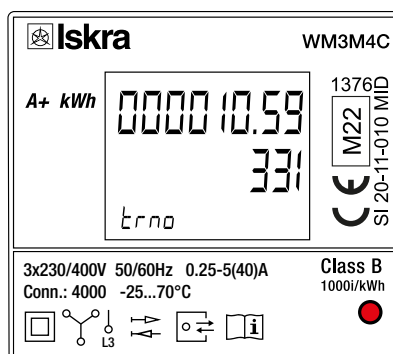
- **Duration** - Duration of the ongoing session. The parameter is not used for billing and is shown only for informational purposes. It represents the time between the actual plugging of the cable and the moment the client stops the session (the time spent with the session stopped but the cable still plugged does not count): in other words is the time the EVSE spends with the blue LED on (blinking or not). Still, in this section is also shown the charging power (last row of the screen).

BIT 1	Duration	<p>The image shows a close-up of the LCD display showing '000000000', '3h 13 42', and '0 w'.</p>	STATUS LCD Charging power (e.g.: 3h 13min 42s)
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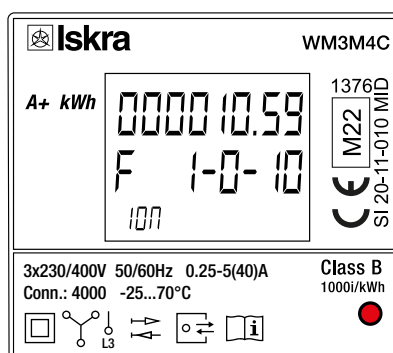
- **Signature Counter** – The number of signatures executed by the meter. For every transaction the meter signs the first and the last readings, so the counter is incremented by two for every session correctly done.

BIT 2	Transaction number		STATUS LCD tr.no
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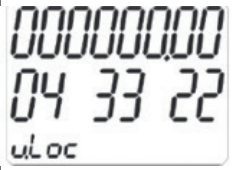


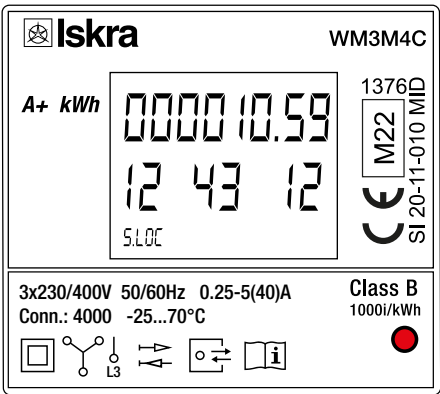
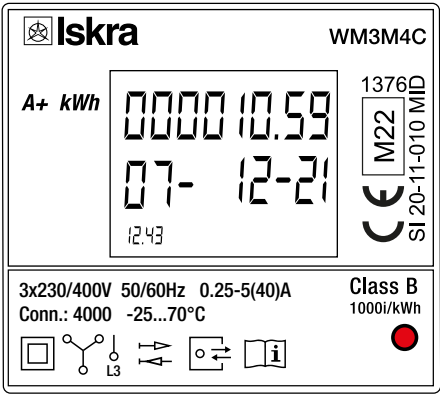
- **EVSE Firmware Version** – The display shows the kind of EVSE (bottom left corner) and the current firmware version installed on board: it updates automatically every time the EVSE is rebooted with a different firmware version.

BIT 3	Custom String		STATUS LCD LCD Custom string label
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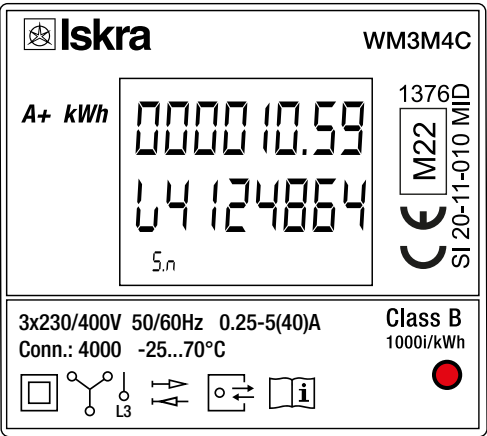
- **Date and Time** - The current date and local time: they are updated every time a charging session is started. If the meter suffers from a power loss, when it is powered up again, the values displayed are the default ones and get updated as soon as a charge is started. To be noted that UTC will be visible on the TRANSPARENZ SOFTWARE.

BIT 4	Date		STATUS LCD hh.mm (time - e.g.:00 (Hour). 11 (minutes))
BIT 5	Time		STATUS LCD 1 st digit: Clock Sync Status Digits 2-4 options: Loc (Local Time) or, UTC (UTC Time)



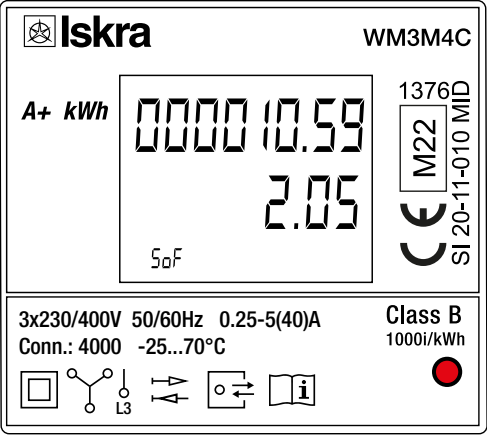
- **Meter Serial Number.**

BIT 6	Serial Number		STATUS LCD Sn
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• Software version of the ISKRA meter.

BIT 7	SW Version		STATUS LCD SoF
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11.4 LCD ERRORS OF THE ENERGY METER

Error are displayed on row 2 and have priority over other messages.
Error format is: Err 1234
Number represents hexadecimal value of 16 bits error state.

Error Bits

Bit 0	Error Parameter CRC
Bit 2	Error MID-lock
Bit 3	Error phase module 1 CheckSum
Bit 4	Error phase module 2 CheckSum
Bit 5	Error phase module 3 CheckSum
Bit 6	Error Measurement module CheckSum
Bit 11	Error phase module 1 cal. data CheckSum
Bit 12	Error phase module 2 cal. data CheckSum
Bit 13	Error phase module 3 cal. data CheckSum
Bit 14	Error Crypto data CheckSum
Bit 15	Error Crypto chip failure

Example:



Err 0005 (binary representation 0000 0000 0000 0101)
BIT0 and BIT2 are set, so we have Parameter CRC Error and MID-lock Error.
In case the meter is in Error state the start of charging process with digital signitures is blocked and the meter needs to be replaced.

12.

CHARGING PROCESS

In this mode, the charging station is connected to the JOINON control platform via the OCPP protocol. To use this mode, a specific configuration of the parameters listed in paragraph 8 is required. The use of connected solutions allows access to a series of advanced options that give both the end user and the owner better access to the service. The end user can use the JOINON app or a similar expedient to find the nearest recharging station and access the service by following the instructions given. The station owner can monitor the status of the station and the consumption level from remote and in real time.

In addition, the end customer can use the JOINON platform to find information about his/her charging sessions, checking the authenticity and lack of falsification with the aid of the TRANSPARENZ SOFTWARE (made available by S.A.F.E - Software Alliance for E-mobility).

13.

FAULTS AND TROUBLESHOOTING

The station codifies any errors encountered by the electronic card. The following table explains the codes and how to solve the errors.

NB= The error code is only visible on I-ON models, which have a display.

NB 1 = Certain errors are shared by all the devices, whereas others are specific for each individual version.



The operations described in this manual may only be performed by duly qualified personnel.

When this manual refers to qualified personnel, this means personnel complying with all the standards, directives and laws concerning safety, as applicable to the installation and operation of this device.

The selection of qualified personnel is always the responsibility of the company that carries out the work, which is the only party that can decide whether a worker is capable of doing a certain job, thereby ensuring their safety and respecting the applicable law with regards safety in the workplace.

These companies must provide suitable training regarding the electrical devices for their personnel, and make sure they become familiar with the content of this manual.

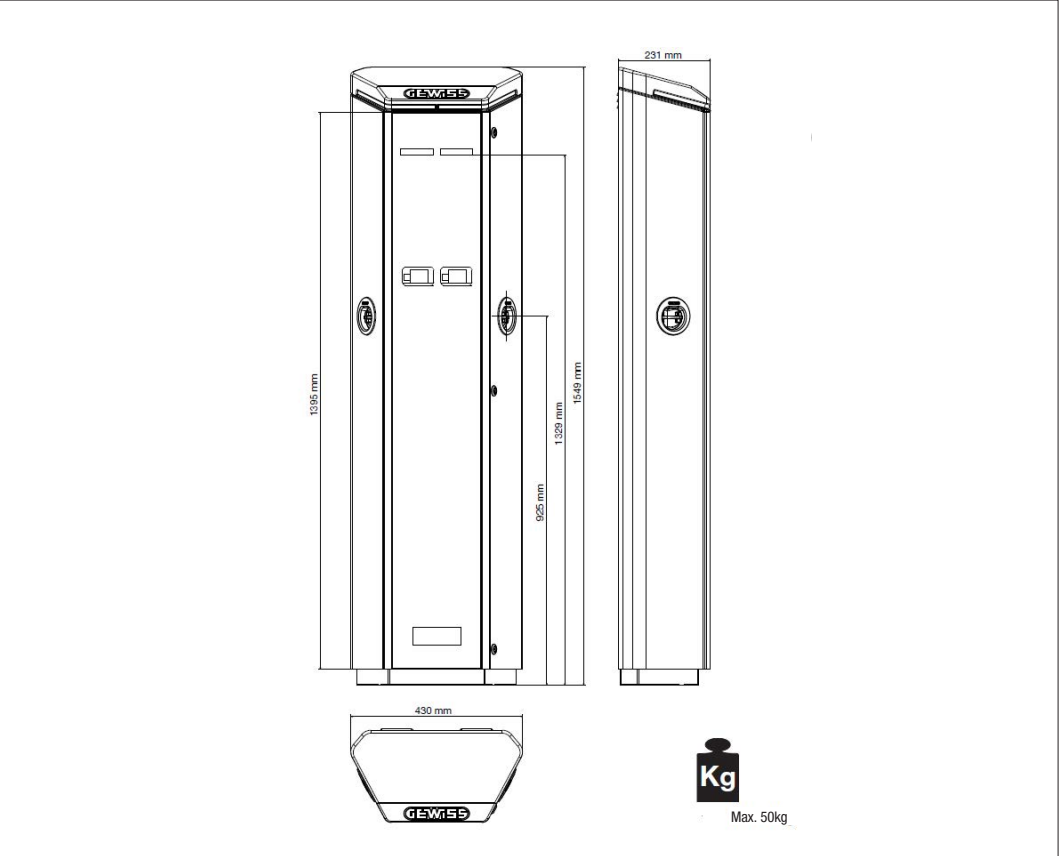
Error code	Description	Solution
Error 1	<p>The front door is open for maintenance or because it has been tampered with. The error extends to the entire station.</p> <p>Valid for I-ON</p>	Close the front door to restore correct anti-tamper device reading.
Error 2	<p>The miniature circuit breaker of the relative type 2 socket-outlet/side is OFF.</p> <p>NB: error not managed on the WallBox version</p> <p>Valid for I-ON COLUMN</p>	Restore the correct operation of the miniature circuit breaker. If the error persists, replace the device.
Error 3	<p>The residual current circuit breaker of the relative type 2 socket-outlet/side is OFF.</p> <p>NB: error not managed on the WallBox version</p> <p>Valid for I-ON COLUMN</p>	Restore the correct operation of the residual current circuit breaker. If the error persists, replace the device.
Error 4	<p>The contactor is working when it shouldn't be.</p> <p>The Type 2 socket-outlet is powered in the standby condition</p> <p>Valid for I-ON I-CON</p>	Check the signal from the electronic board to the contactor, to make sure the former isn't controlling the latter. If the board isn't controlling the contactor, make sure the contactor contacts aren't jammed. If necessary, replace the device.
Error 5	<p>The shutters of the type 2 socket-outlet aren't in the right condition (closed)</p> <p>Valid for I-ON I-CON</p>	Check the mobility of the gates and the relative mechanical devices. If necessary, replace the socket-outlet.
Error 6	<p>Error in the control of the socket-outlet locking motor (it doesn't switch from the OPEN to the CLOSED position)</p> <p>Valid for I-ON I-CON</p>	Manually check the mobility of the pin by moving the red lever on the back of the type 2 socket-outlet locking motor.
Error 7	<p>Error in the control of the socket-outlet locking motor (it doesn't switch from the CLOSED to the OPEN position)</p> <p>Valid for I-ON I-CON</p>	Manually check the mobility of the pin by moving the red lever on the back of the type 2 socket-outlet locking motor.

Error 8	<p>The energy meters are no longer communicating with the electronic board, or the meter has been altered or tampered with.</p> <p>Valid for I-ON I-CON</p>	<p>Only personnel authorised by GEWISS may intervene.</p>
Error 9	<p>The I/O remote control is no longer communicating with the electronic board</p> <p>Valid for I-ON</p>	<p>Check the Modbus line connection</p> <p>Check the power supply to the I/O remote control</p> <p>Check the I/O remote control is working properly</p> <p>Make sure the component on the Modbus line is numbered correctly</p>
Error 10	<p>The station has been OFFLINE for >1h</p> <p>Valid for I-ON I-CON</p>	<p>Try to restart the station by disconnecting the power supply for at least 3 minutes and then reconnecting it.</p> <p>If the station remains in this condition, check the connection. Contact your aftersales service</p>
Error 13	<p>DC current detected on return line from the vehicle</p> <p>Valid for I-CON</p>	<p>In this situation, the charging session is immediately suspended. Remove the recharging cable from the vehicle and wait to begin a new session. If the problem persists, contact the vehicle manufacturer</p>
Error 14	<p>Short-circuit detected on the CP signal</p> <p>Valid for I-ON and I-CON</p>	<p>The station detects a short-circuit between the CP signal and earth. Remove the cable and try again. If the error persists, replace the cable.</p>
Error 15	<p>The load connected is not suitable for recharging</p> <p>Valid for I-ON and I-CON</p>	<p>If a vehicle has been connected but the problem persists, contact the manufacturer of the vehicle.</p>
STATION SWITCHED OFF	<p>The electronic board is not receiving the power supply it needs in order to work</p>	<p>Check the power supply upstream of the station.</p> <p>Check the circuit breaker protection in the board (to protect the electronic card) is working properly. Check the 12V power supply unit of the electronic card is working properly.</p>

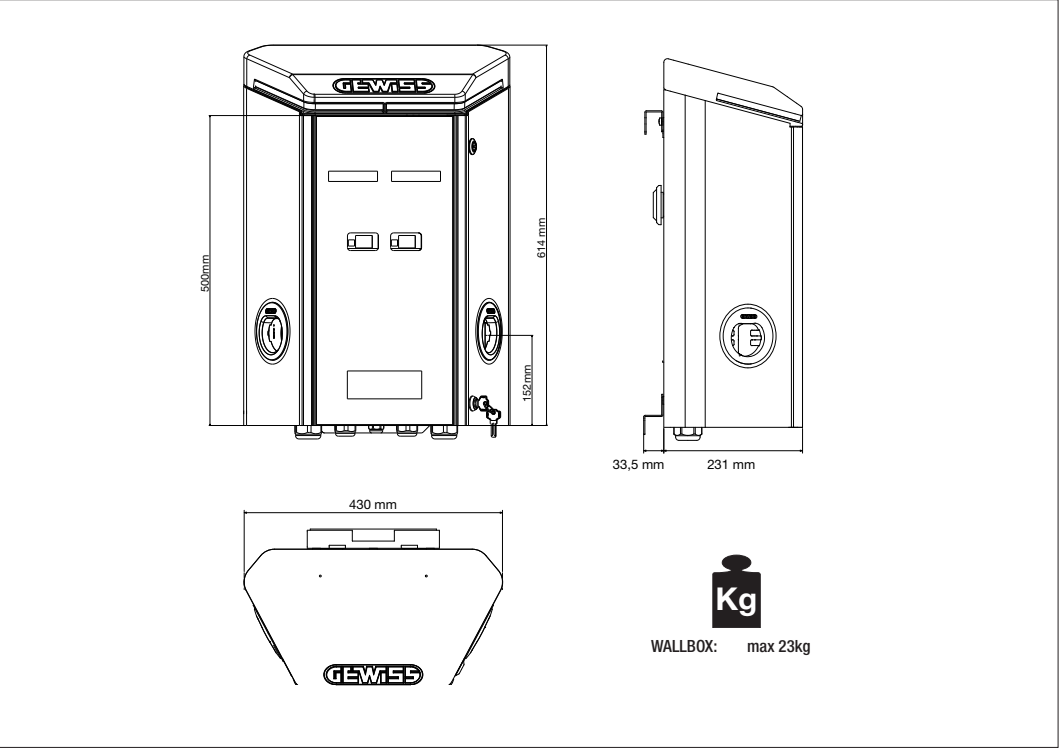
14.

DEVICE DIMENSIONS

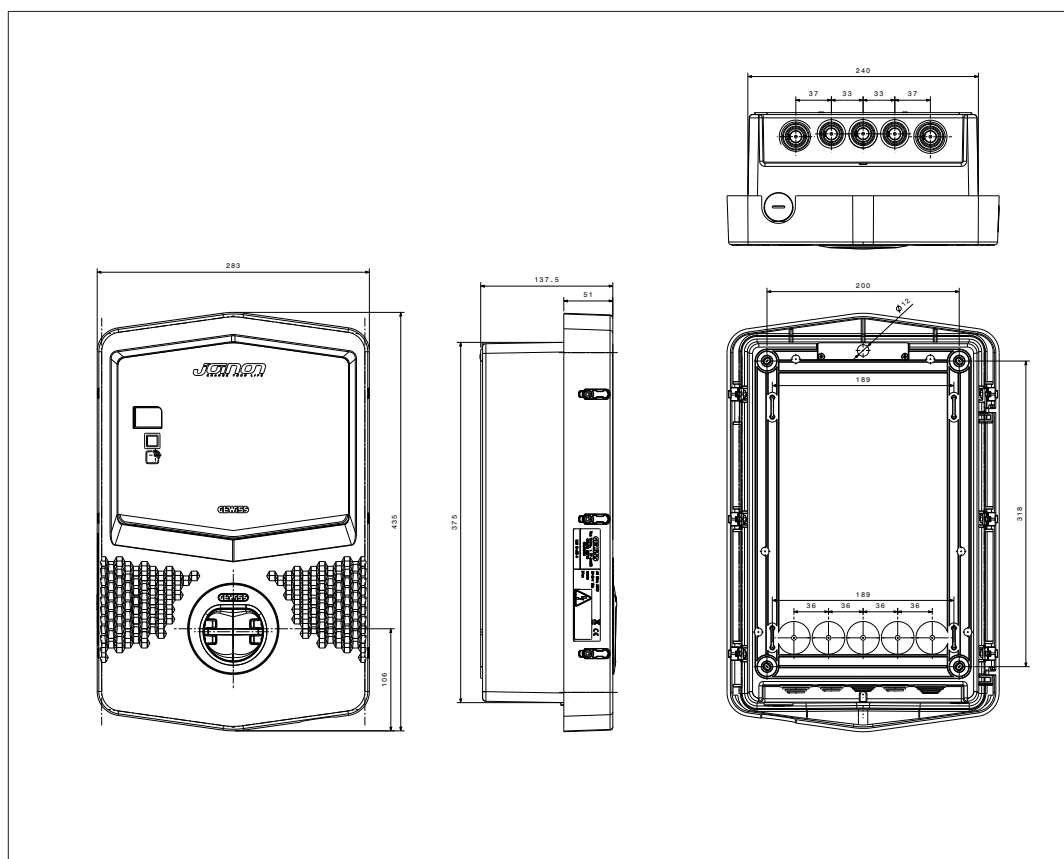
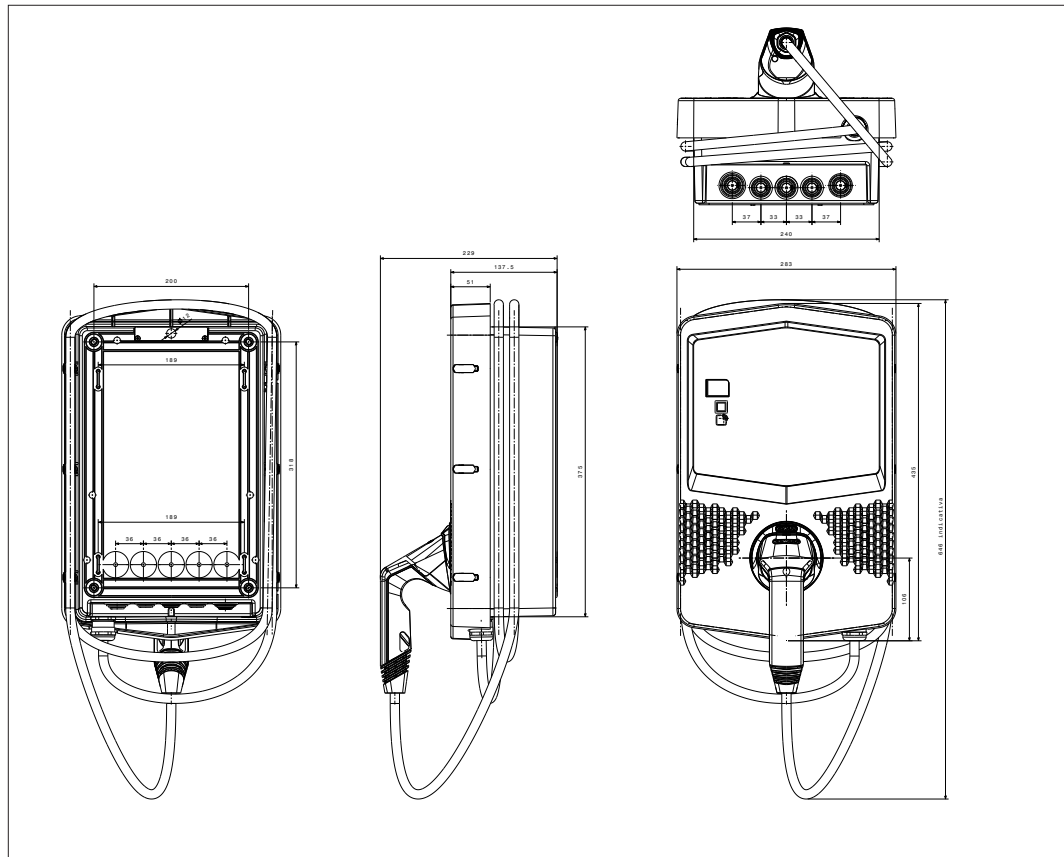
14.1. I-ON COLUMN



14.2. I-ON WALLBOX



14.3. I-CON WALLBOX



15.

REQUIREMENTS TO BE ADOPTED FOR USERS OF THE CHARGING DEVICES AND USERS OF THE MEASURED VALUES

15.1. REQUIREMENTS FOR USERS OF THE CHARGING DEVICES

The user of the charging device is its operator in accordance with § 31 MessEG (German measurement and calibration law) pursuant to the charging station regulations. The user uses the charging equipment in compliance with calibration regulations and in accordance with its intended use when they comply with the requirements and conditions that apply to them in this user manual.

For this reason, the manufacturer provides the following information together with the user manual:

Indication of measurement correctness according to the type examination certificate I

Requirements for the operator of the charging equipment, that they must fulfil as a necessary prerequisite for the operation of the charging equipment in compliance with its intended use.

The operator of the charging equipment is the user of the measuring device in accordance with § 31 of the German measurement and calibration law.

1. The use of the charging device is considered as compliant with the intended use and in compliance with calibration regulations when it is not exposed to environmental conditions other than those for which the type examination certificate was issued.

2. When registering the charging point with the Federal Network Agency, the user must register the PK indicated on the charge column at the charging points in their registration form! Use of the column in compliance with the calibration requirements is not possible without this registration. Weblink: https://www.bundesnetzagentur.de/DE/Sachgebiete/ElektrizitaetundGas/Unternehmen_Institutionen/HandelundVertrieb/Ladesaeulen/Anzeige_Ladepunkte_node.html

3. The user of this product shall make sure that the period of calibration validity for the components in the charging device and for the charging device itself has not been exceeded.

4. The user shall store the signed data packets read out from the charging device - in accordance with the pagination in a permanent and complete manner (also) on hardware dedicated for this purpose in their possession ("dedicated storage") - and keep them available for authorized third parties (operating obligation of the storage). Permanent means that the data does not need to be saved only until the completion of the business transaction, rather until at least any legal periods for appeal for the business transaction have lapsed. If some data is not available, substitute values may not be used for invoicing purposes.

5. The user of this product shall provide an electronic version of the user manual to users of measured values who receive measured values from this product from them and use the values in business transactions. When doing so, the user of this product shall make reference to no. II "Requirements for the user of the measurement values from the charging device".

6. The user of this product is subject to the obligation to notify pursuant to § 32 MessEG (excerpt):

§ 32 Obligation to notify (1) Anyone who uses new or reconditioned measuring devices shall notify the authority responsible under federal state law of this no later than six weeks after putting them into operation.

7. To the extent deemed necessary by authorised authorities, the complete contents of the dedicated local storage or the storage at the Charge Point Operator with all data packets of the invoicing period shall be made available by the user of the measuring instruments.

15.2. REQUIREMENTS FOR THE USER OF THE MEASUREMENT VALUES

The user of the measured values from the charging device is, in accordance with § 33 MessEG, the entity to whom the customer owes payment for the supply of electrical energy received from charging device, that is, the Electro-Mobility Service Provider (EMSP). The EMSP uses the measured values in compliance with calibration regulations only when they comply with the requirements and conditions that apply to them in this user manual.

For this reason, the manufacturer attaches the following information to the user manual:

II Requirements for the user of the measurement values from the charging device (EMSP)

The user of the measured values shall observe § 33 of MessEG:

§ 33 MessEG (quote)

§ 33 Requirements on the use of measured values

(1) Values for the measurements may only be specified or used for commercial or official purposes or for measurements in the public interest if a measuring device was used to determine them and the values can be traced back to that corresponding measurement result, unless otherwise specified in the statutory regulation pursuant to § 41 number 2. Other Federal regulations that serve comparable protective purposes continue to apply.

(2) The entity that uses the measured values shall ensure, to the extent possible, that the measuring device fulfils the legal requirements and shall receive confirmation from the person who uses the measuring device that they complied with their obligations.

(3) The entity that uses the measured values shall

1. ensure that the invoices, if they are based on the measured values, can be easily understood by the person for whom the invoices are intended in order to verify specified measured values and
2. provide suitable aids for the purposes indicated in number 1.

This regulation imposes concrete duties on the user of the measured values regarding use of the measured values in compliance with the calibration requirements:

1. The contract between the EMSP and the customer shall unambiguously regulate that the purpose of the contract concerns only the supply of electrical energy and not the charging service duration.

2. The time stamps on the measured values originate from the backend, which is connected with an NTP Server that is not certified according to the German measurement and calibration law. Therefore they may not be used for the tariffing of the measured values.

3. The EMSP shall ensure that the sale of the electro-mobility service by means of the charging device takes place in a way that makes it possible to observe the ongoing charging process, unless there is a corresponding display on site where the charging device is located. The measurement values shall be provided to the customer in a reliable manner in compliance with calibration regulations at least at the beginning and end of a charging session.

4. The EMSP shall provide the customer with the invoice-relevant data package together with the signature as a data file upon invoicing in such a manner that they can be checked for authenticity using transparency and display software. The data package can be provided using channels that have not been checked pursuant to the calibration regulations.

5. The EMSP shall make the transparency and display software suitable for the charging device available to the customer to check the authenticity of the data package.
6. The EMSP shall be able to demonstrate in a legally admissible manner which means of identification was used to initiate the charging process associated with a particular measured value. This means that they shall be able to demonstrate for every business transaction and in the invoice that they correctly assigned the personal identification data to them. The EMSP shall inform the customer of this obligation in an appropriate manner.
7. The EMSP may only use values for invoicing purposes that are available in a dedicated memory in the charging device, if applicable, or in a memory located at the site of the operator of the charging device. Substitute values may not be provided for invoicing purposes.
8. The EMSP shall stipulate corresponding agreements with the operator of the charging device that ensure that the data packages used for invoicing purposes are stored long enough to be able to complete the associated business transactions.
9. Upon communication of the justified need for the purposes of performing calibrations, calibration checks and measures for usage monitoring, the EMSP shall enable the authentication of the copies of the product pertaining to this operating manual used by them, by providing suitable means of identification.
10. All of the above specified obligations apply to the EMSP as the user of the measured values pursuant to § 33 MessEG also when they use measured values that are obtained from the charging devices by means of a roaming service provider.

EU Declaration of Conformity n. 00561

The company

GEWISS S.p.A.
Via A. Volta, 1
I-24069 Cenate Sotto BG

declares, under its own responsibility, that the products belonging to the category:

Recharging unit for electric vehicles

of the range:

JOINON I-ON (GWJ100XLD-GWJ210XLD)

(whose codes and relative descriptions are given in technical documentation no. FT165V and to which this declaration refers) comply with the essential requirements of the following EU legislation:

MessEV:2014 - MessEG:2013 2011/65/UE + 2015/863

2014/53/UE

2014/32/UE

and therefore satisfy the relative EU standardisation regulation:

ETSI EN 300 330 V2.1.1

Draft ETSI EN 301 489-3 V2.1.1

EN IEC 61851-1:2019

EN IEC 61851-21-2:2021

EN IEC 61439-7:2020

EN 50470-3:2006

VDE-AR-E 2418-3-100:2020-11

WELMEC 7.2, 2020

REA 6A

PTB-A 50.7

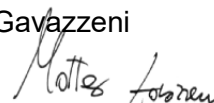
EN 50581:2012

Signed on behalf of GEWISS S.p.A.

Cenate Sotto, 2021.12.17

Corporate Industrial Property,
Standards, Quality Marks and
Certifications Manager

Matteo Gavazzeni



EN

This is a true copy of the original document, drawn up in Italian, signed and filed at the legal offices of Gewiss S.p.A.

EU Declaration of Conformity n. 00562

The company

GEWISS S.p.A.
Via A. Volta, 1
I-24069 Cenate Sotto BG

declares, under its own responsibility, that the products belonging to the category:

Recharging unit for electric vehicles

of the range:

JOINON I-CON (GWJ300XLD-GWJ301XLD)

(whose codes and relative descriptions are given in technical documentation no. FT165W and to which this declaration refers) comply with the essential requirements of the following EU legislation:

MessEV:2014 - MessEG:2013 2011/65/UE + 2015/863

2014/53/UE

2014/32/UE

and therefore satisfy the relative EU standardisation regulation:

ETSI EN 300 330 V2.1.1

Draft ETSI EN 301 489-3 V2.1.2

EN IEC 61851-1:2019

EN IEC 61851-21-2:2021

EN IEC 61439-7:2020

EN 50470-3:2006

VDE-AR-E 2418-3-100:2020-11

WELMEC 7.2, 2020

REA 6A

PTB-A 50.7


EN 50581:2012

Signed on behalf of GEWISS S.p.A.

Cenate Sotto, 2021.12.20

Corporate Industrial Property,
Standards, Quality Marks and
Certifications Manager

Matteo Gavazzeni



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EU Declaration of Conformity n. 00563

The company

**GEWISS S.p.A.
Via A. Volta, 1
I-24069 Cenate Sotto BG**

declares, under its own responsibility, that the products belonging to the category:

Recharging unit for electric vehicles

of the range:

JOINON I-ON (GWJ100XWD-GWJ210XWD)

(whose codes and relative descriptions are given in technical documentation no. FT165X and to which this declaration refers) comply with the essential requirements of the following EU legislation:

MessEV:2014 - MessEG:2013 2011/65/UE + 2015/863

2014/53/UE

2014/32/UE

and therefore satisfy the relative EU standardisation regulation:

ETSI EN 300 330 V2.1.1

Draft ETSI EN 301 489-3 V2.1.1

Draft ETSI EN 301 489-52 V1.1.0

ETSI EN 301 908-1 V13.1.1

EN IEC 61851-1:2019

EN IEC 61851-21-2:2021

EN IEC 61439-7:2020

EN 50470-3:2006

VDE-AR-E 2418-3-100:2020-11

WELMEC 7.2, 2020

REA 6A

PTB-A 50.7

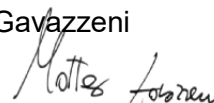
EN 50581:2012

Signed on behalf of GEWISS S.p.A.

Cenate Sotto, 2021.12.21

Corporate Industrial Property,
Standards, Quality Marks and
Certifications Manager

Matteo Gavazzeni



EN

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EU Declaration of Conformity n. 00564

The company

GEWISS S.p.A.
Via A. Volta, 1
I-24069 Cenate Sotto BG

declares, under its own responsibility, that the products belonging to the category:

Recharging unit for electric vehicles

of the range:

JOINON I-CON (GWJ300XWD-GWJ301XWD)

(whose codes and relative descriptions are given in technical documentation no. FT165Y and to which this declaration refers) comply with the essential requirements of the following EU legislation:

MessEV:2014 - MessEG:2013 2011/65/UE + 2015/863

2014/53/UE

2014/32/UE

and therefore satisfy the relative EU standardisation regulation:

ETSI EN 300 330 V2.1.1

Draft ETSI EN 301 489-3 V2.1.2

Draft ETSI EN 301 489-52 V1.1.2

ETSI EN 301 908-1 V13.1.1

EN IEC 61851-1:2019

EN IEC 61851-21-2:2021

EN IEC 61439-7:2020

EN 50470-3:2006

VDE-AR-E 2418-3-100:2020-11

WELMEC 7.2, 2020

REA 6A

PTB-A 50.7

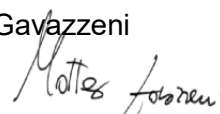
EN 50581:2012

Signed on behalf of GEWISS S.p.A.

Cenate Sotto, 2021.12.21

Corporate Industrial Property,
Standards, Quality Marks and
Certifications Manager

Matteo Gavazzeni



EN

This is a true copy of the original document, drawn up in Italian, signed and filed at the legal offices of Gewiss S.p.A.

Punto di contatto indicato in adempimento ai fini delle direttive e regolamenti UE applicabili:

Contact details according to the relevant European Directives and Regulations:

GEWISS S.p.A. Via A.Volta, 1 IT-24069 Cenate Sotto (BG) Italy tel: +39 035 946 111 E-mail: qualitymarks@gewiss.com



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8.30 - 12.30 / 14.00 - 18.00

lunedì ÷ venerdì - monday ÷ friday



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