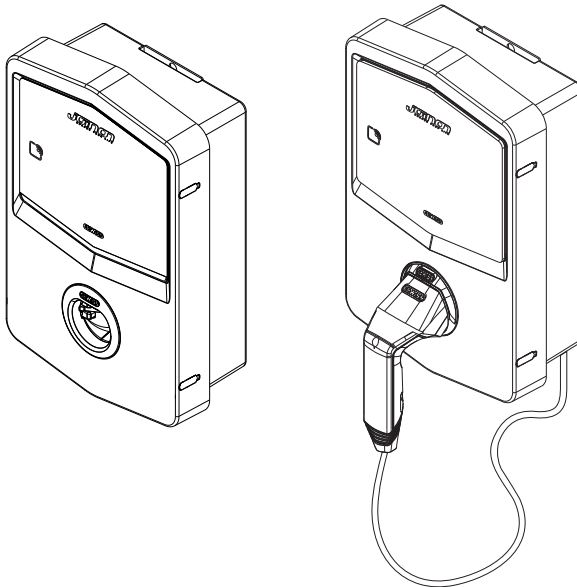


JOINON I-CON EVO MultiCP

EN User and installation manual



I-CON EVOLUTION

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Introduction



INFO: Remember that the information in this document is subject to change without prior notice. Download the most recent version from www.gewiss.com

Welcome to the user manual for JOINON I-CON Evolution, the ideal solution for powering battery-electric vehicles (BEV) and plug-in electric vehicles (PHEV). Designed for fast charging in both public and private settings, this charging station is perfect for commercial car parks, retail stores, fleet charging stations, motorway service stations, workplaces and homes.

The installation of JOINON I-CON Evolution is simple and cost-effective thanks to the wall-mounted design, which offers flexibility and affordable installation in various locations. This AC charging solution is equipped with network communication capabilities, allowing connection with remote systems to provide drivers with real-time information, such as charging progress and invoicing details. With a straightforward user interface, safety certifications, and a waterproof and dust-proof design, JOINON I-CON Evolution is the ideal choice for outdoor environments.

Main Characteristics

- **Easy and Flexible Installation:** The wall-mounted design makes installation simple and adaptable to a variety of needs.
- **Convenient Control:** Ability to start and stop charging using authorised RFID smart card or mobile APP (available upon request).
- **Compliance with Standards:** Built to the latest industry standards for AC charging.
- **Hard-wearing and Reliable:** Resistant to intrusion of solids and liquids, ideal for outdoor environments.
- **Complete Configuration:** Fully configurable via local interface.
- **Support for OCPP 1.6J:** Compatible with the Open Charge Point Protocol (OCPP) version 1.6J.

Applications

JOINON I-CON Evolution is designed for a wide range of applications, including:

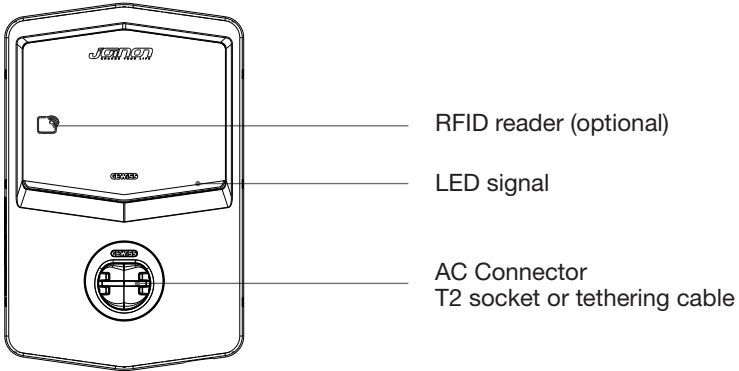
- Public and private parking areas
- Hotel, supermarket and shopping centre car parks
- Parking areas in workplaces

In this manual, we will guide you through the installation, configuration and use of your JOINON I-CON Evolution charging unit, to make sure you get the most out of your charging station.

Related codes

I-CON code	I-CON BASIC Multi CP – UP TO 22KW
GWJ3504GK	I-CON Basic Multi CP (w/o auth) T2S 22kW UK
GWJ3502GK	I-CON Basic Multi CP (w/o auth) T2S 7.4kW UK
GWJ3604TK	I-CON Basic Multi CP (with auth) T2S 22kW UK
GWJ3704TK	I-CON Basic Multi CP (with auth) T2S 22kW MID UK

1. I-CON EVO user interface



Warning: according to the requirements of EN-17186, this document contains harmonized identifiers for power supply for electric road vehicles. The requirements of this standard are designed to meet the information needs of users regarding compatibility between EV charging stations, cables and vehicles placed on the market. The identifier is intended to be displayed at EV charging stations, on vehicles, on cable assemblies, at EV dealers and in instruction manuals as described.

2. Technical specifications

2.1 Technical product specifications

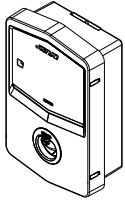
Model name	GWJ35XXGK – GWJ36XXTK – GWJ37XXTK	
AC Input	Voltage Rating	230 VAC (±15%) 400 VAC (±15%)
	Max Input Current	32A
	Max. Input Power	22 kVA
	Power Grid System	TN / TT
	Frequency	50/60Hz
	Electrical Distribution	1P+N+PE 3P+N+PE
Input protection	Available inside the charging station	<ul style="list-style-type: none"> • PEN fault • OVP • OPP
	On the exterior of the charging station	<ul style="list-style-type: none"> • MCB (2P or 4P up to 32A, Curve C or D) • RCD (2P or 4P up to 40A, Type A, 30mA)
Internal protection	DC leakage (Trip for DC residual current at 6mA)	
	SPD protection (VM:115-750V - ITM: 6K-10K A TA: -55°C - +85°C – Surge Current: 10kA)	
Mechanical Data	Weight	• T2 socket model: 4,5 Kg
	Protection Degree	IP 55
	Mechanical resistance	IK 10 (Excluding Display if present)
	Electric shock protection	Class 1
Environmental conditions	Operating temperature (exterior)	-25 °C; + 55°C * * It must not be exposed to direct sunlight
	Storage temperature	-40°C; +70°C
	Relative humidity value	5%~95% RH
	Altitude	≤ 2000m
	Pollution degree	3
Communication	External	<ul style="list-style-type: none"> • Wi-Fi • Ethernet port 10/100
	Internal	-

I-CON EVOLUTION

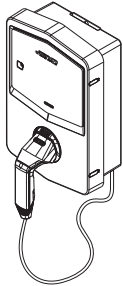
Regulation for EU	Directive	<ul style="list-style-type: none"> • 2014/53/EU • 2011/65/EU + 2015/863 • Electromagnetic compatibility EMC classification: B
	Standard	<ul style="list-style-type: none"> • EN IEC 61851-1 • EN IEC 61851-21-2 • EN IEC 63000 • ETSI EN 301 489-3 V2.1.1 • ETSI EN 301 489-17 V3.2.4 • ETSI EN 301 489-52 V1.2.1 • ETSI EN 301 908-13 V13.2.1 • ETSI EN 300 328 V2.2.2 • ETSI EN 300 330 V2.1.1 • EN IEC 62311
	Standard socket	<ul style="list-style-type: none"> • EN 62196 Type 2 Mode 3
Regulation for the UK	Regulation	<ul style="list-style-type: none"> • Radio Equipment Regulation 2017 (UK RED Regulations) • The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
	Standard	<ul style="list-style-type: none"> • BS EN IEC 61851-1 • BS EN IEC 61851-21-2 • BS EN IEC 63000 • ETSI EN 301 489-3 V2.1.1 • ETSI EN 301 489-17 V3.2.4 • ETSI EN 301 489-52 V1.2.1 • ETSI EN 301 908-13 V13.2.1 • ETSI EN 300 328 V2.2.2 • ETSI EN 300 330 V2.1.1 • BS EN IEC 62311 • BS 8300-1 • paragraph 722.411.41(iv) of BS 7671:2018/A1:2020.
	Standard socket	<ul style="list-style-type: none"> • BS EN 62196 Type 2 Mode 3
User Interface	User authorisation	<ul style="list-style-type: none"> • None • Via app • Via OCPP • RFID reader (supports ISO 14443A/B) – not for GWJ35XXGK
	Charging status information	<ul style="list-style-type: none"> • LED (always)
Charging Interface		<ul style="list-style-type: none"> • T2 socket
Power in standby	15 W	
Other	In UK the use of software controlled means cannot be used to control isolating devices	

2.2 General and Country-specific requirements

2.2.1 General requirements



In the event of a short-circuit, the value of $I2t$ at the EV socket of the Mode 3 charging station must not exceed 75000 A2s



In the event of a short-circuit, the value of $I2t$ on the vehicle connector (case c) of the Mode 3 charging station must not exceed 80000 A2s

2.2.2 Country-specific requirements



In Spain, installation in homes and for the 16A application, the standards for electrical installations require the use of shutter sockets



In Sweden, national regulations require shutters or equivalent protection methods with equivalent safety levels. For instance: installation heights, blocking objects with contact capacity, locking the cover, etc.

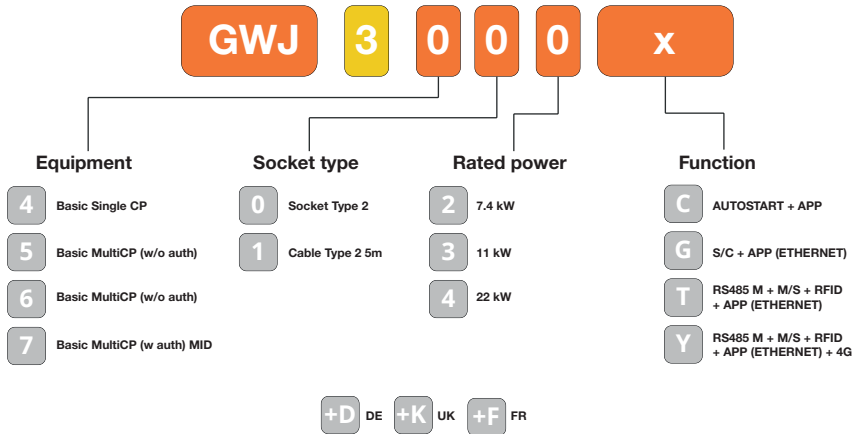


I-CON EVO cannot be sold in the United States and Canada

2.3 Description of I-CON EVO code

I-CON EVO is available in different versions depending on connector type, charging power, display availability and other internal devices.

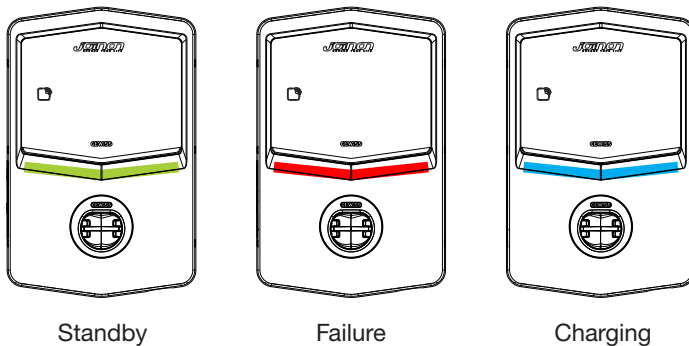
The following table describes the meaning of the number and letter.



2.4 LED indication and operating status

The charging station uses RGB LEDs to inform the client about the status and indicate which actions need to be carried out.

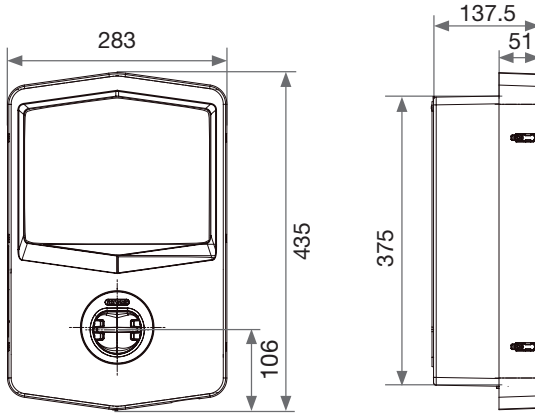
The meanings of the various colours are explained below. To access the charging features offered by I-CON EVO, it is important to download the myJOINON App available from the Google and Apple stores.



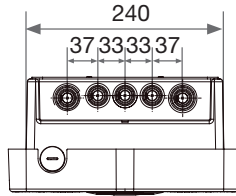
Colour	Fixed	Flashing
No colour	The charging station is switched off	
	The charging station is restarting to apply the new FW	
White	N/A	Wi-Fi hotspot on (overlaid with base colour)
		The charging station has a SERVER role
Green	Charging station available	Waiting for the charging cable to be removed or inserted
Red	Station internal error	N/A
	Error connecting or configuring the Server/Client dynamics	N/A
Blue	Charging session in progress, system powered	Charging session suspended or battery charged
Yellow	N/A	Breath flashing: applying new FW after download
		Flashing: Downloading FW via OTA

2.5 Dimensions

Main charger dimensions: (unit: mm)



Front and side view



View from below

3. Device delivery and storage

3.1. Delivery

Keep the device packaged until installation.

3.2 Device identification

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 also shown on the technical data label (on the right side of the front panel).

3.3 Damage during transport

If the device was damaged during transport:

1. Do not install it.
2. Notify the fact immediately (within 5 days of delivery).

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

3.4 Storage



Failure to observe the instructions provided in this section could cause damage to the device. The manufacturer declines all responsibility for damage deriving from the failure to observe these instructions.

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. The manufacturer declines all responsibility relative to the consequences caused by packaging deterioration.

I-CON EVOLUTION

- 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 temperature	-40°C
Minimum temperature of the surrounding air	-40°C
Maximum temperature of the surrounding air	70°C
Maximum relative humidity without condensation	95%

- It is very important to protect the system against corrosive chemical products and saline environments.

4. Installation instructions

4.1 Before installation

- Read all instructions before installing and operating this product.
- Do not use the product if the power cable or charging cable are damaged.
- Do not use this product if the charging connector or housing is broken or open, or if there is any damage.
- Do not insert any tools, materials, fingers or other body parts into the charging connector or EV connector.
- Do not twist, swing, bend, drop or crush the charging cable. Never drive over it with a vehicle.

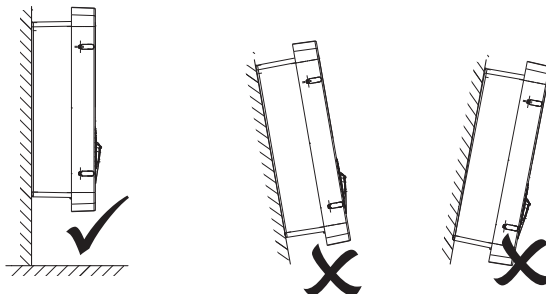


WARNING: The product must only be installed by a contractor and/or an authorised technician in compliance with all building, electrical, and safety regulations.



WARNING: The product must be checked by a qualified installer before first use. Under no circumstances shall compliance with the information contained in this Manual relieve the user of the responsibility to comply with all applicable safety codes and standards.

- The power supply must be provided via a single- or three-phase configuration with TN(-S)/TT earthing systems.
- In the installation of the TN(-S) system: the neutral (N) and PE of the electrical distribution are directly connected to earth. The PE of the charging equipment is directly connected to the PE of the power distribution and to the separate PE and neutral (N) conductor.
- The product must be installed on a perfectly vertical wall.



- The wall on which the device is fastened must be solid. It must be possible to drill the wall and insert wall plugs that are suitable for supporting the device weight.



CHARGING STATION CLASSIFICATION:

- Permanent connection
- Equipment for places without restricted access
- Class I appliance

4.2 Requirements of the installation area

I-CON EVO will work to the best of its potential if the installation area follows these rules.



WARNING: GEWISS is not responsible for incorrect installations that could cause damage to the product or the EV connected to the charging station.

1. Requirements for workplace conditions

- Provide adequate fencing to isolate the construction area from the outside
- Close and secure all entrances when the site is unattended
- Hang warning notices nearby with the following information: warning icon and telephone number of the person in charge
- Install a sufficient number of light fittings



2. Cleaning

- Keep work areas (including accesses) free from debris and obstructions
- Keep ground surfaces tidy and level to prevent people from tripping or being injured by tools or other objects
- Stack and store equipment and materials in a tidy and stable manner
- Clean and dispose of waste regularly
- Remove all excess materials and equipment when work is complete



3. Fire hazards

- Be aware of flammable materials and goods. Keep them away from work areas.



4. Protection against high temperatures on the job site

- Build a sun awning or canopy to protect workers from the heat and sun
- Provide cooling equipment, such as vacuum cleaners
- Provide water dispensers
- Provide appropriate protective clothing, such as a hat, sunglasses and long-sleeved shirts, to protect workers from heat stroke and UV rays



5. Adverse weather conditions

- Secure all scaffolding, temporary structures, loose equipment and materials
- Check and implement the SOP (standard operating procedure) to ensure the disconnection of gas supplies, electrical circuits and equipment
- Inspect construction sites for protection against ingress of water or dust
- Inspect the drainage system for obstructions and remove any obstructions
- Stop all outdoor work, except emergency work



6. Lifting

- Have the lifting equipment and devices inspected and tested regularly by qualified persons
- Isolate and demarcate lifting areas to keep non-personnel away
- Make sure that the lifting paths do not cross buildings or people and avoid collision with objects
- Do not exceed safe working load limits



7. For on-site workers

- Schedule the entire job
- Switch off the power supply (work with disconnected parts if possible)
- LOTO (Lock Out, Tag Out)
- Live electrical work permit (high voltage input terminals after door opening)
- Use personal protective equipment (PPE)
- Safe working spaces and conditions
- Abide by other regulations related to occupational health, safety and protection, such as those published by OSHA



8. Reference Standards

Comply with the following regulations:

- NFPA-70E (Electrical Safety in the Workplace, Shock Risk Assessment, Arc Flash Risk Assessment)



4.3 Earthing and safety requirements

- The product must be connected to a permanent, earthed, metallic wiring system. The connections must comply with all applicable electrical codes. An earthing resistance of less than 10Ω is recommended.
- When installing, maintaining or repairing the charger, make sure that no power is connected at any time.
- Use adequate protection when connecting to the main electrical distribution network.
- Use the appropriate tools for each task.

4.4 External protectors to be installed

4.4.1 RCD Protection

Device not included in the charging station or packaging.

This protection must be installed above the charging station in a dedicated switchboard.

Each charging station must be protected upstream by a residual current device required by the low voltage electrical system standard.

In particular, each station must be protected upstream by a:

- Type A RCD (complying with one of the following standards: IEC 61008-1, IEC 61009-1, IEC 60947-2 and IEC 62423)
- 2-pole or 4-pole
- Rated current 40 A
- 30mA



I-CON with a power of 7.4 kW requires a 2-pole RCD

I-CON with a power of 11 and 22 kW requires a 4-pole RCD

4.4.2 MCB Protection

Device not included in the charging station or packaging.

This protection must be installed above the charging station in a dedicated switchboard

Each charging station must be protected upstream by a circuit breaker protection required by the low voltage electrical system standard.

In particular, each station must be protected upstream by a:

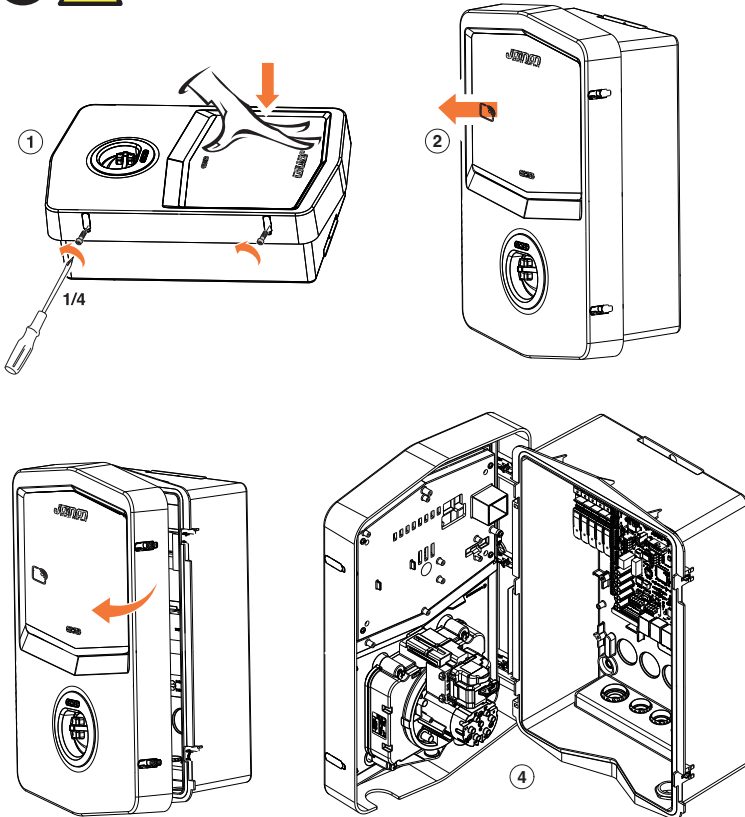
- C or D Curve MCB
- 2-pole or 4-pole
- Rated current 32 A

4.5 Installation procedure

4.5.1 Opening the charging station

STEP 1.

1. Open the housing as shown in the figure.

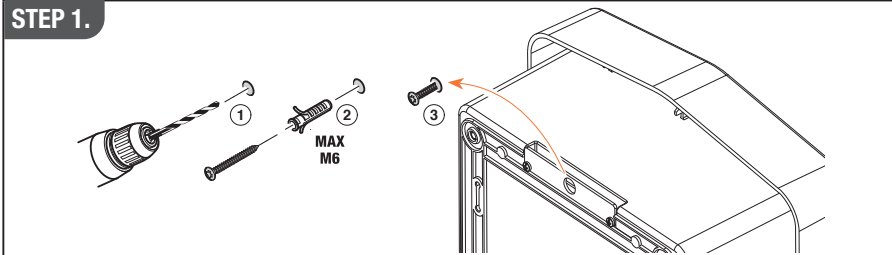


4.5.2 Surface-mounting or pole-mounting installation

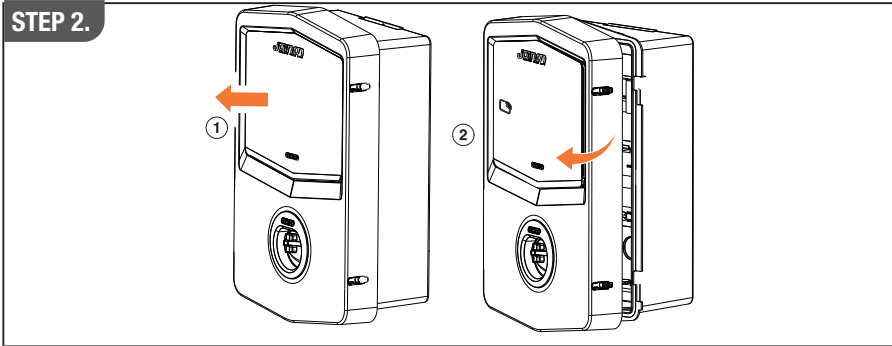
One of the following two solutions can be selected to install the device:

SURFACE-MOUNTING INSTALLATION

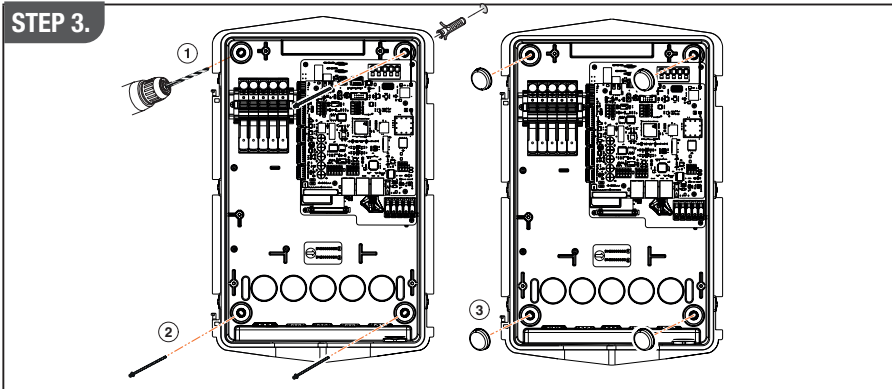
STEP 1.



STEP 2.



STEP 3.

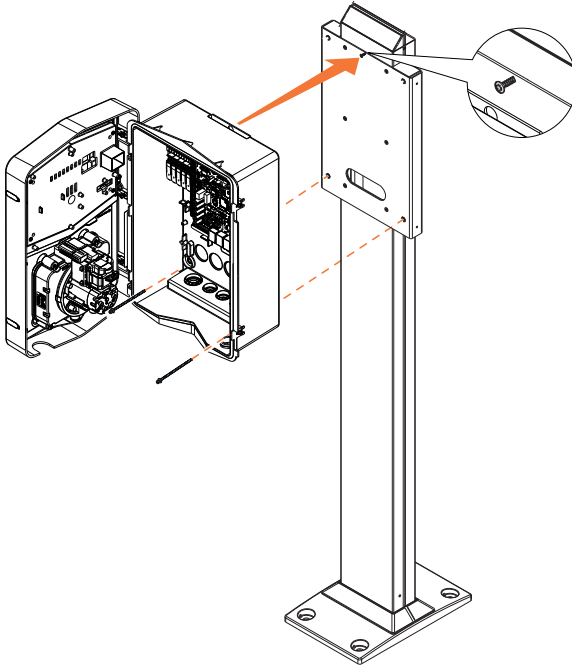


i **NB:** Surface-mounting installation of I-CON must take into account that the T2 socket, or its tethering version cable tray, must be between 50 cm and 1.5 m above the ground.

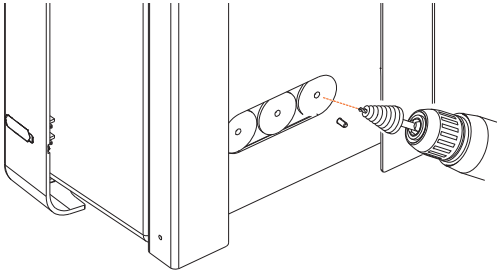
I-CON EVOLUTION

POLE-MOUNTING INSTALLATION

STEP 1.



STEP 2.



WARNING: A cover capable of protecting the product from exposure to direct sunlight during the hottest hours of the day must be envisaged. If the temperature of the electronic system rises above the design limits, the product will be subject to a power derating and then malfunctions could occur that are not covered by the warranty

4.5.3 Roof protection

When I-CON EVO is surface-mounted or wall-mounted with direct exposure to sunlight, a cover must be envisaged to protect the product from exposure to direct sunlight during the hottest hours of the day. This cover must provide shade to the entire product at any time of the day. The cover must be installed at a height above the I-CON EVO wall box which minimises the obstruction and provides the necessary shade. If the temperature of the electronic system rises above the design limits, the product will be subject to a power derating and then malfunctions could occur that are not covered by the warranty

4.5.4 Wiring connection

The charging station has a different option for cable entries.

4.5.5 Phase rotation

Phase rotation is a key practice for balancing the electrical load in multiple charging station installations. This process distributes the load between the three phases of the three-phase system to optimise energy efficiency and ensure the stability of the electrical system.

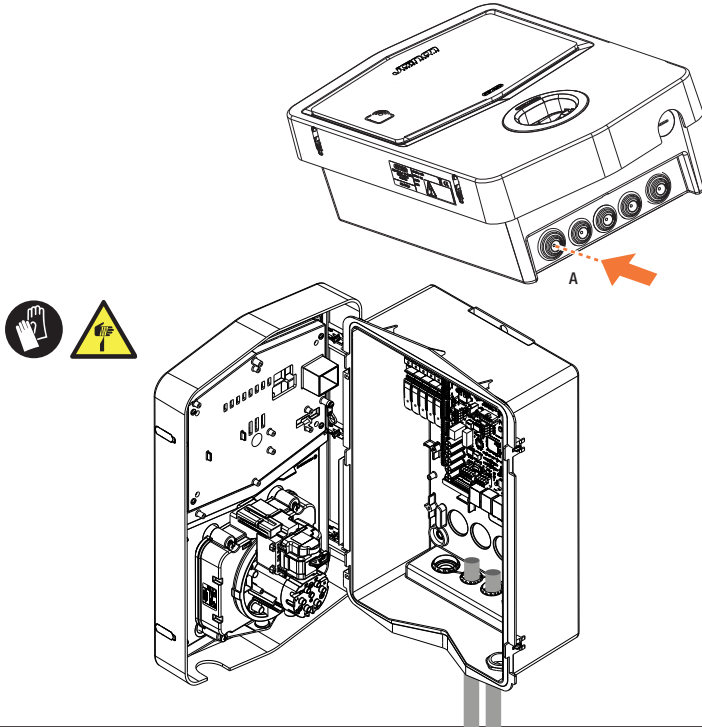
Procedure:

- 1) **Phase identification:** in a three-phase system, identify the three phases as L1, L2 and L3.
- 2) **Connecting the First Charging Station:** connect the first charging station to phases L1, L2 and L3 in standard order.
- 3) **Connecting Subsequent Stations:** for the second charging station, rotate the phases so that the connections are L2, L3 and L1.
For the third charging station, rotate the phases again so that the connections are L3, L1 and L2.

Continue to rotate the phases for each new charging station installed.

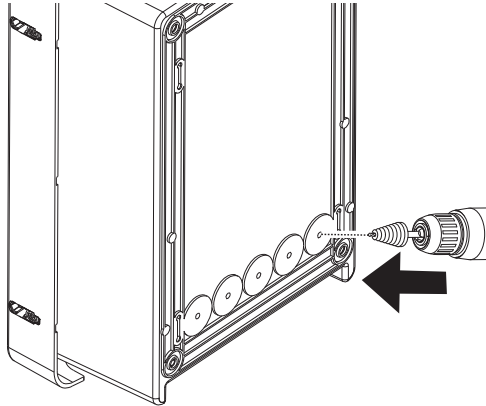
SOLUTION 1.

1. A cable enters from the underside via cable glands



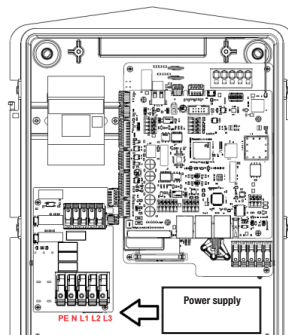
SOLUTION 2.

1. Alternatively, the cable can be routed from the rear



STEP 1.

1. Locate the connection terminal on the bottom right and wire the power supply phases accordingly



Position of power supply

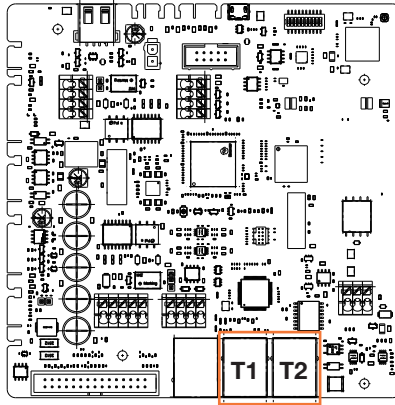
2. After the wiring process is complete, the charging station can be switched on

4.6 MultiCP System Installation

4.6.1 Introduction

With the installation of a DLM MultiCP system, up to 30 charging points can be managed, maximising the use of available energy, avoiding overloads and allowing simultaneous charging of several vehicles. It is based on a Server/Client logic. The server station manages the Client stations.

Communication between the stations is via Ethernet cable, using the dual ports on the Joinon EVO MultiCP motherboard if necessary.



4.6.2 Connection between charging points

To allow for greater flexibility and ease of installation, the feature is designed to work with 2 different system topologies, which can be selected by the customer according to their needs.



NB: All solutions must use at least one Ethernet cable at least CAT5.

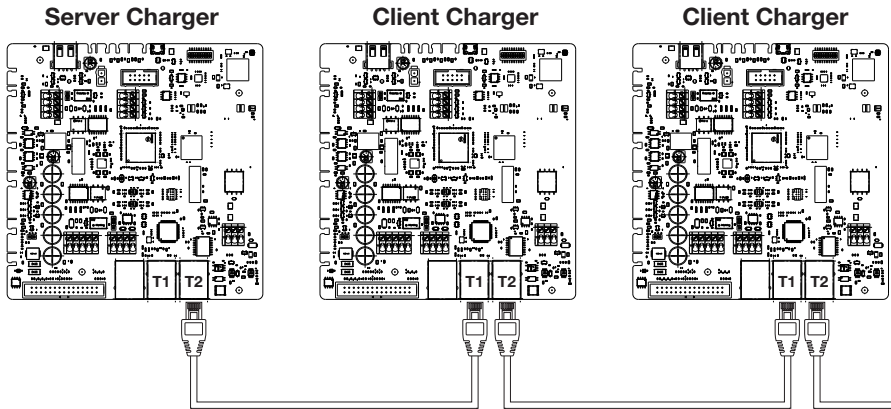


WARNING: You cannot install more than one server station on the same local network! This leads to the non-functioning of the installation.

4.6.3 Topology 1: “Daisy Chain”

Description of the system

This topology uses both motherboard Ethernet ports. The installer will connect the charging stations in series, following a pattern similar to the image below.



This should result in an implant structure similar to the one shown in the figure:



Specific characteristics

This configuration allows for easy connection between stations, without the addition of external devices and with a reduced use of Ethernet cable.

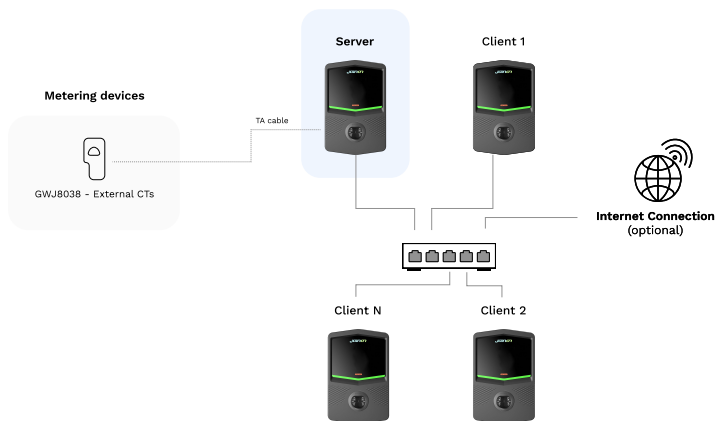
Clearly, with this topology, the system is susceptible to any failure of a client station or deterioration of the Ethernet cable, which would lead to the disconnection of all downstream stations.

4.6.4 Topology 2: star connection

Description of the system

This topology is designed to achieve a “centralised” link between the various stations. In this case, the installer, using only one of the 2 Ethernet ports of the board, will have to connect the products to an Ethernet switch. Clearly, the availability of switch ports will need to be appropriate for the number of stations to be connected. When the installation is complete, the system should have a pattern similar to this:

Star configuration



Specific characteristics:

This type of connection, while more complex and expensive at the level of external devices to buy and cable to lay, ensures the highest level of robustness of the connection between stations. This is because if one Client station fails, the functionality of the other stations will not be affected.

4.6.5 Connection of metering devices

The installation of an external measurement device, capable of providing the Server Station with information about the system’s consumption, is essential for the use of the load balancing functionality.

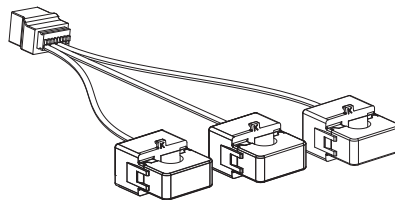
Currently I-CON EVO MultiCP allows a specific kit of sensors to be fitted.

Gewiss **CT sensors** connected to the server station

- GWJ8037: for SINGLE-PHASE systems
- GWJ8038 for THREE-PHASE systems

Gewiss CT sensors

This solution is compatible with installations with a current rating of less than 100A.



The devices should be connected directly to the designated SERVER station, following the instructions in the KIT. The positioning of the same inside the system is crucial. Follow the instructions in the following paragraphs for correct installation

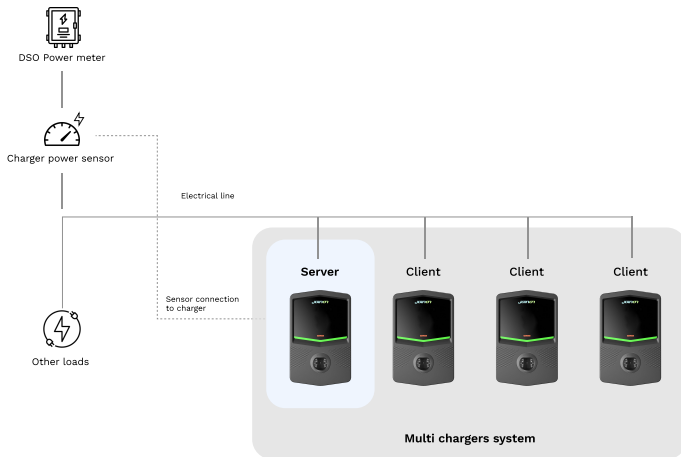
4.6.6 External sensor positioning instructions

In order for the system to function correctly, the Server station must be able to obtain, from an external sensor, consumption data for the entire installation where the series of charging points is installed. This is essential to be able to calculate the energy available for charging and to determine the behaviour of all stations.

Therefore, as can be seen from the diagram below, the sensors must always be installed upstream of the installation. Commonly, correct positioning is achieved by locating your energy supplier's meter and placing the sensors just after.

Clearly, should the station system have a certain amount of fixed dedicated power, not shared with other loads, the TA sensors should be installed upstream of the dedicated line.

Correct sensor placement



Even if you have a line dedicated to the charging system with constant available power, you still need to install the metering device for the functionality to work properly.



WARNING: In the case of installation of a system consisting of both single- and three-phase stations, the Server station must necessarily be **THREE-PHASE**.

4.7 Electrical check – Earthing resistance

When the installation is completed and the system is powered, an electrical check is mandatory to avoid any problems during the charging session.

For example:

- the earthing resistance should be lower than 10Ω .
- voltage between neutral and earth is less than 15V.

5. Functional specifications

I-CON EVO offers several MultiCP versions, with slight differences in internal components, depending on requirements.

I-CON EVO MultiCP is available in the following versions:

- Without an RFID reader
- With an RFID reader
- With MID energy meter

5.1 Basic functions

I-CON EVO MultiCP allows you to choose between basically 2 main operating modes:

- **STANDARD:** the station will charge the vehicle to a fixed default maximum power, in this case no load balancing dynamics are required.
- **DYNAMIC MultiCP:** The charging power can vary, allowing the total available power to be split between multiple I-CON EVO stations, so that multiple vehicles can be charged at the same time.

5.2 Dynamic MultiCP Mode

With the installation of a DLM MultiCP system, up to 30 charging points can be managed, maximising the use of available energy, avoiding overloads and allowing simultaneous charging of several vehicles.

Communication is via a Server-Client logic, where the Server station manages the Clients connected to the system.

The Server station also reads the power data of the system from an external meter, which is essential for calculating the energy balance between external loads and charging stations.

The operating principle is currently based on balanced logic. The energy available for charging is divided equally between the active sessions. In the event of a reduction in power availability, the Server station suspends the last charging session started, allowing previously started sessions to be terminated. As power availability increases, suspended sessions are restarted.

The system measures the consumption of the system, adapting the charging power accordingly, for the most precise adjustment possible.

6. How to charge electric vehicles



WARNING: Do not use adapters between the charging cable and the vehicle charging socket.



WARNING: Adapters between the EV socket and the EV plug should only be used if they are specifically designed and approved by the vehicle manufacturer or the manufacturer of the EV power equipment and by national requirements.

I-CON EVO MultiCP offers an easy way to charge an electric vehicle.

By default, I-CON EVO requires authorisation to begin a charging session, and this can be done in 2 ways:

- Via RFID enabled card (only for models with RFID reader)
- Via the myJOINON APP, once the user has been invited and authorised by the system administrator.

Finally, it is also possible to set the station to “Autostart” mode, so that charging starts as soon as the connector is inserted into the car.

6.1 I-CON EVO MultiCP with RFID reader

In this case, I-CON EVO is equipped with an internal RFID reader and the identification of the user can be carried out using an RFID tag. Usable RFID tags must comply with IEC 14443 A/B.

I-CON EVO enables RFID tag registration and management in 3 modes:

I-CON EVO enables RFID tag registration and management in 3 modes:

- 1) Via JoinON small net**
- 2) Via the OCPP platform to which the station is connected**
- 3) Locally, with the addition directly from the tag on-board Portal.**

When the end-user scrolls through the RFID tags, I-CON EVO reads the tag asking the JoinON small net or OCPP platform for permission. If the RFID tag is accepted, the charging session can begin. If it is not accepted, I-CON EVO displays an error and the colour of the LED is RED blocking any charging session.

6.1.1 Offline RFID tag management

With I-CON EVO MultiCP, under certain conditions, charging can be started even if the station is offline.

2 solutions are available:

1) Station OFFLINE momentarily but normally registered and connected to JoinON small net: The station downloads the list of authorised tags locally, and if there is no connection, this list is used to initiate charging sessions. Once reconnected, the list will be automatically updated with any added/removed tags.

2) Permanently OFFLINE Station: in case it is necessary to authorise the charging with RFID tag of a station designed to work permanently OFFLINE, it is possible to add the tags locally from the On-board Portal. It is important to specify that any connection of the station to an OCPP platform or to JoinON small net will lead to the overwriting of the local list. Follow the paragraphs below for instructions on accessing and using the On-board Portal.

6.2 I-CON EVO MultiCP without RFID reader

This version requires user identification by default before starting a charging session, as the product is designed for multi-user use. Without the RFID reader, this authorisation is carried out by the myJOINON App and the I-CON EVO must be connected to the JoinON small net platform.

This mode requires the execution of a process called “digital commissioning” through the JoinON small net platform.

After a few steps by GEWISS, the end user or designated contact person will be able to complete the required configuration and invite the authorised users.

7. EVSE setting from On-board Portal

I-CON EVO multiCP is equipped with a local web portal from which you can modify all the station configuration parameters and also read the logs for debugging any abnormal situations.

7.1 Accessing the On-board Portal

To access the On-board Portal, you must first connect to the same network as the charging station.

This can be done in 2 ways:

- By connecting to the Wi-Fi hotspot of the individual station, identifying the SSID and password on the label provided in the box.

Wi - Fi Network:
GWJ3402CK_50411C39CAC8

Wi - Fi Password:
XXXXXXXXXX

- By connecting to the same Wi-Fi / Ethernet network to which the station is connected.

Once connected to the station, the On-board Portal can be reached at the following address:

https://WIFI_HOTSPOT_SSID.local:8080

For example: https://GWJ3702C_50411C39CD16.local:8080



To facilitate access, the WIFI Hotspot SSID and password are the same data used to connect to the hotspot generated by the station.

If the address is correct, a login page should open, where you should enter:

The image shows two side-by-side screenshots of the 'JoinOn On-board Portal' login interface. The left screenshot is a light gray background showing the 'JoinOn' logo at the top left, followed by the word 'Login' and two input fields: 'Username *' and 'Password *'. Below the fields is a 'Login' button. The right screenshot is a dark blue background with the text 'JoinOn On-board Portal' and a subtitle 'The portal dedicated to the management of electric recharges stations'.

Username: Installer

Password: WIFI_HOTSPOT_PSW

Both WIFI_HOTSPOT_SSID and WIFI_HOTSPOT_PSW are easily found on the label provided in the box for each station.

7.2 Basic structure of the On-board Portal

Once you have successfully logged in, the On-board Portal will be divided into 4 macro sections:

- **Configuration**
- **Logs**
- **Charging log**
- **RFID**

Below is an overview of the individual sections.

7.2.1 Configuration section

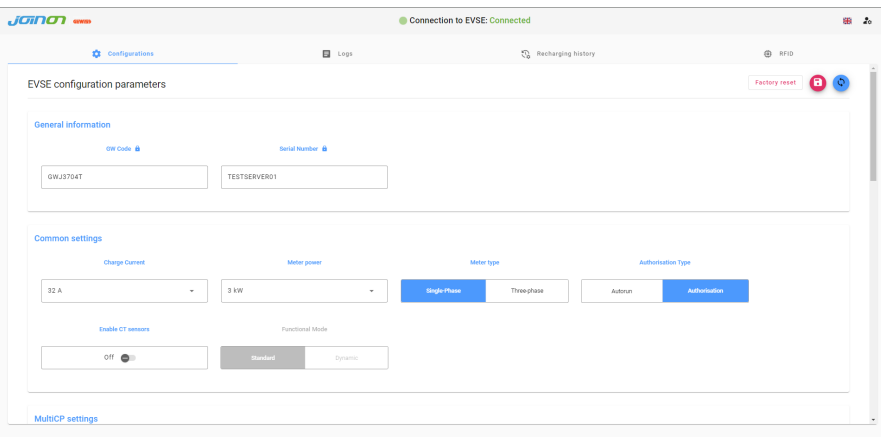
This section is divided into several subsections:

- **General information:** Information about the station
- **Common settings:** Important and often necessary parameters for the installation of products.
- **MultiCP settings:** Parameters specific to MultiCP stations, including those required to manage the DLM
- **Other settings:** Additional parameters for specific features that are not relevant
- **Network settings:** Parameters required to configure the Internet network via Wi-Fi or Ethernet.
- **OCPP:** OCPP setting parameters
- **Regional settings:** Parameters required for models designed for specific regions (e.g. UK or FR)

Users will have to save the settings with the save button at the top right and reload the page with the refresh button.

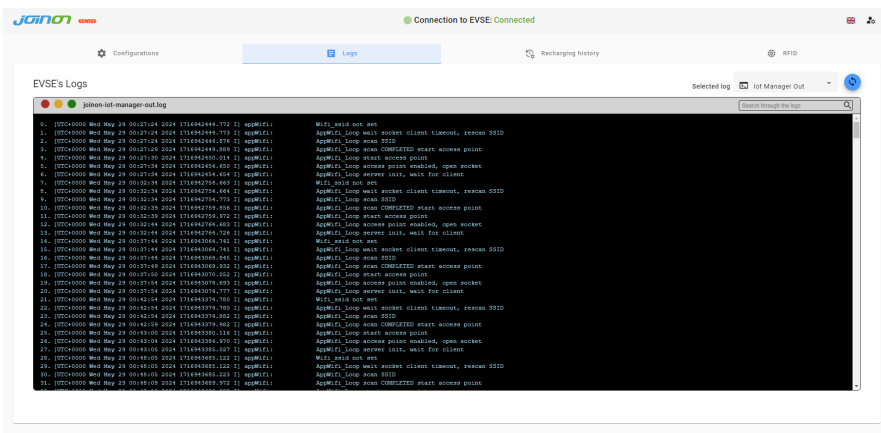


The On-board Portal is programmed to show no parameters that are not available for the specific charging station model



7.2.2 Logs section

In this section, installers and service personnel will have easy access to the logs of the charging station. At the top right you can select the log file to read and refresh manually to view the new logged lines. When the portal is opened, the platform communication management log is shown, which is often the most useful for initial debugging.



I-CON EVOLUTION

In selecting the files to be read, you can see that some will have a suffix with a number (.1, .2 ...). This is normal, as the station has a 5-day log retention capability. The prefix means how many days ago the log refers to. For instance, an: iot Manager Out 5 should be opened if you want to read the logs from 5 days before. After 5 days, the logs are placed in a zip file that is saved to the cloud and then deleted locally.

In addition, files with the suffix err are logs with only any serious errors in the execution of the specific function.

Follow the table below to find which file to open and view to get the information you need.

Log name	Function	Brief description	Comment
joinon-authentication-manager	RFID authentication	RFID tag management	
joinon-configuration-manager	Configuration	Any new saved configuration is logged, whether it is timerange, restoring default values, etc.	
joinon-current-manager	Current management data	Any change in current parameter is logged, e.g. during DLM operation	
joinon-eol-manager	END of Line commands	The receipt/sending of EOL commands between the station and the test machine is logged	
joinon-evse-fsm	Status machine	The changes between the different charging statuses, the sending/receiving of the contactor and socket status are logged.	
joinon-ev-state-manager	Status of communication between station and EV	Status changes of the CP and contactors are logged.	
joinon-iot-manager	CLOUD connectivity and communication management	A heavily populated log, any change in station status is tracked if communicated to the cloud. Also, all connectivity statuses/errors are marked in this file.	Very useful for general debugging of many issues. It is suggested that you always start here to analyse any problems and then investigate them by opening the specific logs.

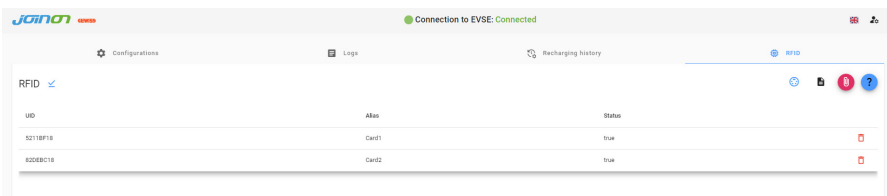
joinon-led-manager	RGB LED management	Each colour change and animation of the LED is marked	
joinon-meter	Metering	Log of the energy values read by the internal or external meter (MID/TIC).	
joinon-socket-manager	Socket management	All changes in status of the charging socket are logged as well as the receipt of change commands.	
Joinon-watchdog-manager	Watchdog	Any service restarts triggered by the Watchdog are logged.	

7.2.3 Charging log section

This section displays basic data about the charging sessions started on the product.

7.2.4 RFID section

In this section, the installer can manage the RFID tags saved locally on the station. There is a function for importing tags using a CSV file. It is important to note that in the case of connected stations, as specified in the previous chapters, the tags must be managed either by JoinON small net or by the OCPP platform chosen by the customer.



7.3 I-CON EVO MultiCP configuration as a single station

I-CON EVO MultiCP is designed to be installed in systems with multiple interconnected stations. However, if the installation of a single station is necessary, the following configuration steps from the On-board Portal must be followed.

7.3.1 Operating parameter setting

Once the station has been started, proceed and access the On-board Portal to set, as required:

- **Meter type:** whether single- or three-phase
- **System power**
- **Maximum charging current**
- **Operating mode:**
 - **Static**, if you want the station to charge at the set power
 - **Dynamic**, if you want to take advantage of the DLM on a single charging station. In this case, the CTs must be installed and the “enable CT sensors” parameter or TIC (for French stations) must be enabled. If you want to take advantage of the DLM with multiple stations, leave unchanged
- **Authorisation:** choose from:
 - **Autorun:** the charging session will start as soon as the cable is plugged in.
 - **Authorisation:** You will need to enable charging using the APP or RFID card of the JoinON small net or the chosen OCPP platform.

When setup is complete, press the “save” button at the top right and, unless already prompted by the portal, proceed to restart the station.

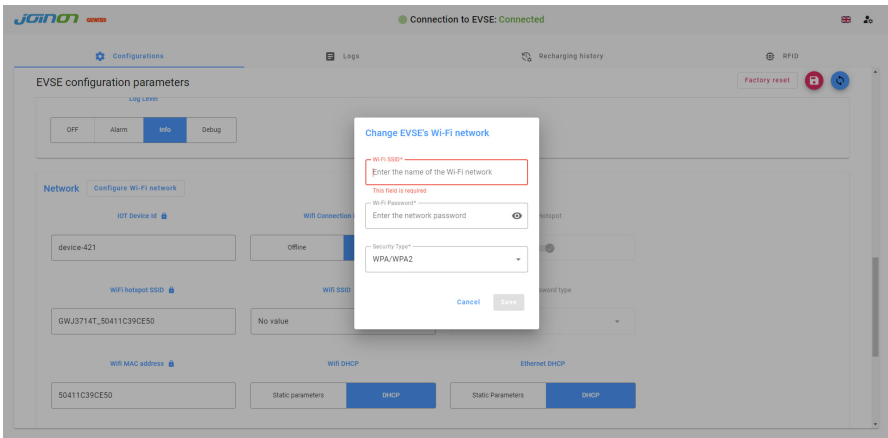
7.3.2 Internet Network Setup

I-CON EVO MultiCP allows connection to the Internet via both Wi-Fi and Ethernet network.

From the On-board Portal, configuration section, locate the menu with network configuration parameters and proceed.

Wi-Fi network configuration:

From the on-board portal click on “configure Wi-Fi network”. A window opens asking for network parameters (SSID, Password, and Security). Once entered, click on "save". The station closes the hotspot and connects to the selected network.



Clearly, you will need to connect to the same network you just set up to access the on-board portal again.

7.4 DLM MultiCP: server station configuration

After the installation and connection of the stations, the connection of the external meter, you first need to proceed with the configuration of the station that will assume the role of Server.



INFO: For more effective configuration, we recommend that you always start with the Server station configuration.

Access the station On-board Portal as described in the previous paragraphs (7.1) and proceed with configuration. **If this is the first time you are connecting, connect using Wi-Fi hotspot.**

7.4.1 Basic parameter setting

In order for the DLM to function correctly, there are some basic parameters that need to be set up for the server station to perform its task.

From the On-board Portal, “Common parameters” section, set:

- **Meter type:**
 - whether single- or three-phase
- **Meter power:**
 - In this case, you need to set the available power of the entire system to be monitored and operated by the installed sensors



WARNING: Incorrect setting of this parameter could lead to malfunctions or overloads of the system.

- **Charging Authorisation:** choose from:
 - **Autorun:** the charging session will start as soon as the cable is plugged in.
 - **Authorisation:** You will need to enable charging using the APP or RFID card of the JOINON Cloud or the chosen OCPP platform.



WARNING: If an external metering source (CT or TIC) is NOT present, the DLM will NOT function!

7.4.2 MultiCP specific parameter setting

Now you need to enable the DLM, again from the On-board Portal, identify the “MultiCP Settings” section and proceed with the setting:

- **Server/Client logical activation**
 - Activate the switch
- **Role of the charging station**
 - Select “Server”
- **Role of the charging station**

Depending on the chosen device, enable

- CT: From the “Common parameters” section, activate the “Enable CT sensors” switch



WARNING: Non-activation or incorrect setting of the external metering device may lead to the FAILURE of the DLM.

Save the settings using the save key at the top right and wait for the station to restart.

7.4.3. Internet connection setup

Although the DLM dynamics are designed to work properly OFFLINE, I-CON EVO MultiCP allows connection to an Internet network via Wi-Fi or Ethernet, to unlock all advanced monitoring and platform connection functions. It is important to set the DHCP behaviour of the Server station, which allows 2 operating modes:

- S/C Local DHCP, for sharing the Wi-Fi connection with Client stations
- Direct connection to an available Ethernet network, entrusting the task of DHCP to the external network infrastructure.

To set one mode or the other, follow the instructions below.

7.4.3.1 Internet connection setup

Once the cable is plugged into one of the available ports, the station should automatically connect to the Ethernet network, from which it will be possible to access the on-board portal and proceed with configuration.

If the station was previously set as DHCP for Client stations, select the "Client" role from the "DHCP S/C role" item in the multiCP specific settings, save with the button at the top right and the station should restart.

Also restart all Client stations, if any, to allow the newly connected Ethernet network to reconnect to the router.

7.4.3.2 Local Server/Client DHCP setting

The I-CON EVO MultiCP motherboard can behave as a DHCP server for client cards connected to the Ethernet, sharing their Wi-Fi connection, and behaving as a "router" for other stations. This allows you to set up a single Wi-Fi network, avoiding redundant operations on Client stations and may be useful if you do not have a wired internet connection in your system.

Setting step

From the On-board Portal, network settings section:

- Set up a Wi-Fi network, as described in the previous paragraph (7.3.2), in the Wi-Fi connection section.
- Reconnect to the On-board Portal, accessing the same Wi-Fi network you just set up
 - 1) Select the "Server" role from the "DHCP S/C role" item in the multiCP specific settings
 - 2) Press the "Save" button at the top right, the station will restart
 - 3) Also restart any previously connected Client stations
 - 4) Now the Wi-Fi connection will be shared with all other Client stations.



WARNING: Enabling this function involves the creation of a local network between stations. To access the On-board Portal of the individual stations, you must connect a PC to the same local network, by connecting to a free Ethernet port of a station or to the Wi-Fi hotspots of each station, which will still be active.



WARNING: Gewiss is not responsible for problems resulting from poor Wi-Fi connections. Before installing I-CON, ensure that the area has adequate Wi-Fi signal coverage. A strong signal is needed for best performance, especially when there are a large number of Client stations.



WARNING: Gewiss suggests the use of a Wi-Fi network with an appropriate level of security, such as WPA-WPA2-Personal, and avoid public networks with no level of security

Complete configuration, save the parameters using the “save” key at the top right and wait for the station possibly to restart.

7.5 DLM MultiCP: Client station configuration

If you have chosen to set up the station as a Client, configuration is quick and easy, since every operating parameter is managed by the Server.

As soon as the Client station is installed and powered, log into the On-board Portal. If this is the first time you are connecting to a new product, connect using Wi-Fi hotspot.

Then set:

7.5.1 Common parameter setting

In order for the DLM to function correctly, there are some basic parameters that need to be set up for the client station to perform its task. From the On-board Portal, “Common parameters” section, set

- **Charging authorisation: choose from:**
 - Autorun: the charging session will start as soon as the cable is plugged in.
 - Authorisation: You will need to enable charging using the APP or RFID tag registered on the Joinon SmallNet CLOUD or the chosen OCPP platform.

7.5.2. MultiCP specific parameter setting

Now you need to enable the DLM, again from the On-board Portal, identify the “MultiCP Settings” section and proceed with the setting:

- **Server/Client logical activation**
 - Activate the switch
- **Role of the charging station:**
 - Select the “Client” role

Press the “save” button at the top right, which restarts the station.

At the next start, if everything is correct, the Client station should begin to communicate with the Server, this is confirmed by the fixed or flashing green LED.

8. Optional 4G modem (GWJ8111)

I-CON EVO MultiCP can be equipped with a dedicated 4G modem.

The code GWJ8111 provides the device (modem) and the necessary cables.

The modem must be configured; to complete the configuration of the device follow the instructions provided in the dedicated user manual

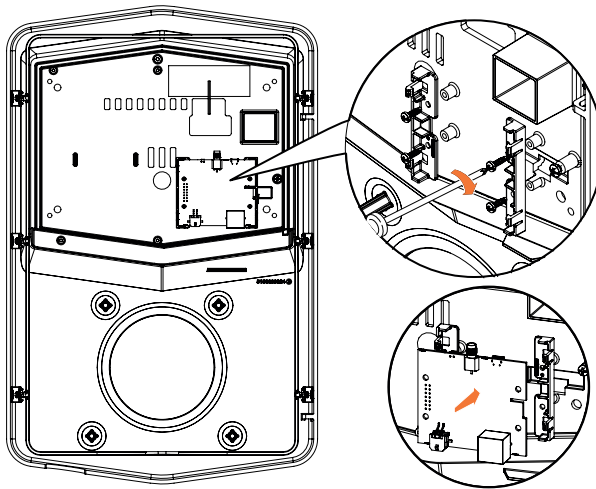


WARNING: It is important to disconnect the power supply from the charging station before opening it for maintenance or adding accessories.

To install the modem inside the I-CON, proceed as follows:

STEP 1.

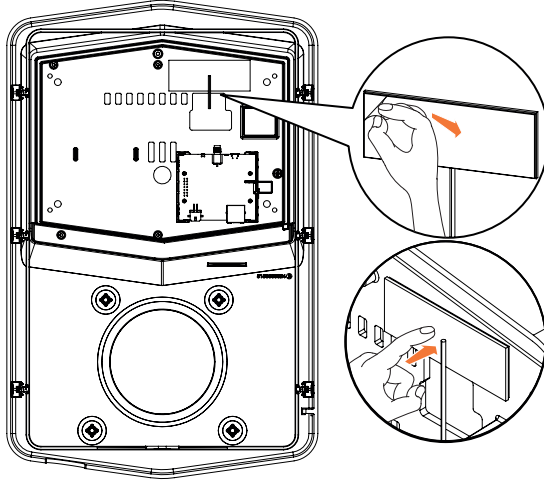
1. Secure the modem in the modem section on the I-CON cover



I-CON EVOLUTION

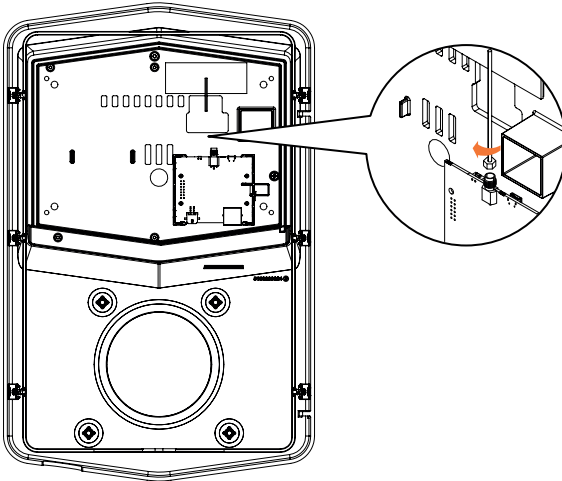
STEP 2.

1. Place the antenna in the dedicated space. Remove the protective strip and glue it to the I-CON cover



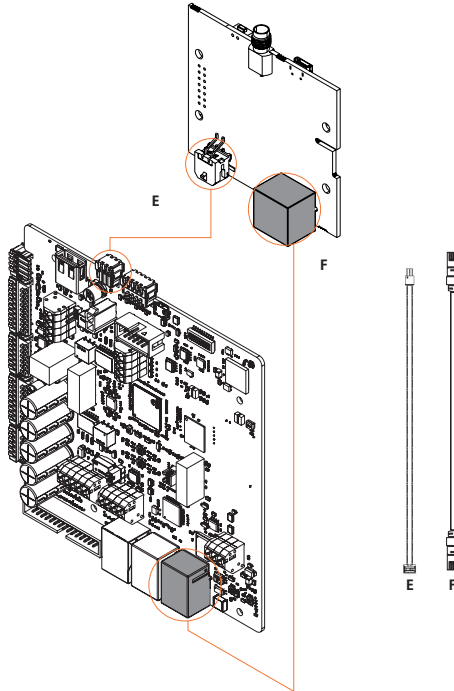
STEP 3.

1. Connect the antenna to the modem at the dedicated point



STEP 4.

1. Connect the Ethernet cable between router port and the circuit board
2. Connecting the power supply cable



INFO: GEWISS does not provide any SIM card for mobile connection. The end-user must use their own SIM card.



INFO: The necessary parameters required by the modem for SIM activation are the end user's responsibility.

To enable the connection, simply connect the modem to a free Ethernet port of the station and make sure that the “SC DHCP Role” parameter is set to “Client” in the specific section for multiCP products in the Server station, from the on-board portal. Clearly, once connected, you will need to connect to the same local network as the 4G router (via a free Ethernet port) to proceed with configuring the connected Client stations.

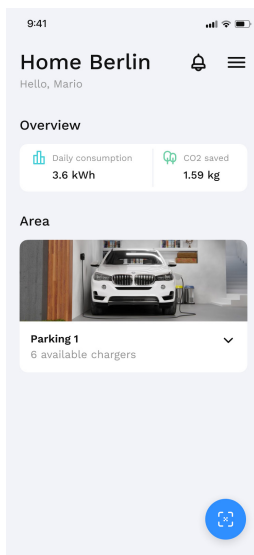
9. myJOINON APP

All charging functions of I-CON EVO MultiCP are available in the myJOINON App. Once the more or less complex structure of the organisation has been set up by Joinon SmallNet, the system manager has the possibility to invite users to one or more systems within the same organisation, in order to enable them to start charging vehicles autonomously without the use of a physical medium such as an RFID tag. Currently, it is possible to invite users with permanent access, or even to schedule their access limited in time.

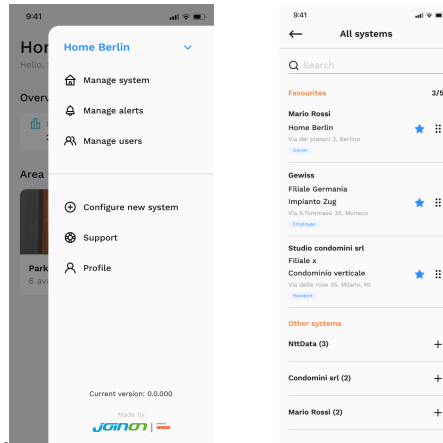
To invite a user, all you need is an e-mail address, which will receive an invitation confirmation.

9.1 Access to the charging stations

Once you have received the invitation, download the myJOINON App, using the links to the stores (iOS or Android) provided in the e-mail. After the installation of the App, an account must be registered with the same e-mail address as that provided to the installer to send the invitation. By completing registration, you should go to the home page of the system to which you were invited.



The APP can be used to view multiple systems, by tapping on the "3 bars" at the top right where you can see your favourites. Tap "other systems" to see any other systems and set your favourites with the "star".



The invited users can therefore manage the charging sessions autonomously, quickly identifying the available sockets in the system and start the charging sessions also simply by tapping the blue button and scanning the QRcode installed on the station without having to select the system manually. If the user is not invited to the system where the charging station is registered, an error is returned.



INFO: The QRcode for charging start must be properly installed and paired with the charging station via the JOINON SmallNet platform.

During the session and after it, the user will be able to keep track of the charging data. Once you have received your first invitation and registered, simply open the App to view any new systems to which you have been invited.

10. Ozev Requirements

10.1 Pen Fault

I-CON has an in-built solution for monitoring the input voltage and recognizing a PEN fault. The solution requires no configuration for the customer. If I-CON detects a PEN fault, an error is generated and the charging session is immediately interrupted. I-CON remains in this error state until the customer restarts it using an option in APP.

I-CON EVOLUTION

The customer receives a notification via APP with information on the error and the type of check required before restarting the I-CON.



WARNING: I-CON cannot recognise whether the problem on the grid is resolved, so the customer must check the situation with an installer and only restart I-CON if the problem has disappeared.

11. Error coding and troubleshooting

11.1 List of error codes

Here is the list of errors I-CON may generate.

Error no. Code	Error title	Brief description
1	DOOR OPEN	The front panel is open. The product is not safe.
4	CONTACTOR (T2) NOK	The contactor is in a different status than expected.
5	SHUTTERS T2 NOK	The shutters are in a different status than expected.
6	MOTOR BLOCK CLOSED NOK	The motor block system does not move to the CLOSED position.
7	MOTOR BLOCK OPEN NOK	The motor block system does not move to the OPEN position.
8	ENERGY METER COMMUNICATION NOK	Modbus with energy meter communication fault. The errors is activated after 3 incorrect readings. After 1 correct reading, the error is removed.
9	INCORRECT CABLE SIZE	Cable size not present in the EV simulator.
10	OFFLINE >1h	The EVSE lost communication with the backend for 1 hour. The EVSE is connected to the Wi-Fi but cannot connect to the cloud.
11	CONTACTOR (SCHUKO) NOK	The contactor is in a different status than expected.
12	MCB (SCHUKO) NOK	The MCB is open, interrupting the electrical power supply.

13	DC CURRENT	The device recognises DC during the charging current.
14	CP SIGNAL NOK	There is a CP signal error.
15	EV DIODE FAULT	The EVSE check on the diode has failed.
20	PEN FAULT	The EVSE has detected a fault in the PEN system.
22	ADC COMMUNICATION FAULT	If an error occurs after the internal ADC configuration is complete.
24	INPUT POWER SUPPLY NOK	The input voltage is out of range.
25	ETH PORT NOK	Error detected in the Ethernet port, if the LAN interface is in an error state or if the client cannot communicate with the master (over ION).
26	WIFI NOK	Error detected in the Wi-Fi chip.
27	EXTERNAL CT NOK	The external CT devices have broken.
28	EV OVERLOAD	The EV does not respect the current limits.
29	CHARGING SUSPENDED - VENTILATION NOT WORKING	The EV requires ventilation, but EVSE has no related signal (to the ventilation system).
31	UNDERVOLTAGE	The input voltage is low.
32	DC LEAKAGE FAULT	The device checks this error state at start-up of the EVSE.
33	IoT PROBLEM	The device does not receive a response for transaction initiation messages that have been sent.
34	TIC COMMUNICATION	The EVSE does not receive any communication packets from the ICT device. If no correct packet is received after 30 seconds, the error is activated.
35	OTA DECRYPT ERROR	Error updating OTA
36	OTA CHECKSUM ERROR	Error updating OTA
37	S/C SERVER COMMUNICATION ERROR	The Client station has lost connection to the Server station.
39	S/C ERROR: COMMUNICATION WITH METER	The Server station has lost communication with the external metering device for more than 60s
40	UNAUTHORISED OFFLINE CHARGING	The station is offline and is set to not authorise charging until it comes back online

11.2 Troubleshooting for the end user

When an error occurs on I-CON EVO, the user can try to remedy it by following these steps

Error no. Code	Error title	Brief description
1	DOOR OPEN	Check the condition of the cover. If it is open, close it. When closing the cover, make sure that the internal device is pressed down. If the error persists, contact support.
4	CONTACTOR (T2) NOK	Try to start another charging session. If the error persists, contact support.
5	SHUTTERS T2 NOK	Check the condition of the plugs of the T2 sockets. If they are opened without a plug, try moving them with the tool. If the error persists, contact support. If this error occurs while I-CON is charging, remove the plug. The shutter is closed mechanically. The error disappears. If the error persists, contact support.
6	MOTOR BLOCK CLOSED NOK	Try to start another charging session. If the error persists, contact support.
7	MOTOR BLOCK OPEN NOK	Try to start another charging session. If the error persists, contact support.
8	ENERGY METER COMMUNICATION NOK	If the error persists, contact support.
9	INCORRECT CABLE SIZE	Try to start another charging session with the same cable or use a different cable. If the error persists, contact support.
10	OFFLINE >1h	Check the Internet connection provided to I-CON. Check the connection parameters on I-CON. If the error persists, contact support.

11	CONTACTOR (SCHUKO) NOK	Try to start another charging session. If the error persists, contact support.
12	MCB (SCHUKO) NOK	If the error persists, contact support.
13	DC CURRENT	Remove the plug and start another charging session. Try to start charging with another EV. If the error persists, contact support.
14	CP SIGNAL NOK	Try to start another charging session with the same cable or use a different cable. If the error persists, contact support.
15	EV DIODE FAULT	Connect an EV to I-CON.
20	PEN FAULT	Check the status of the mains electricity supply with your installer. When the mains electricity problem disappears, restart I-CON.
22	ADC COMMUNICATION FAULT	If the error persists, contact support.
24	INPUT POWER SUPPLY NOK	Check the power supply connected to I-CON with your installer.
25	ETH PORT NOK	If the error persists, contact support.
26	WIFI NOK	If the error persists, contact support.
27	EXTERNAL CT NOK	Check the connection and wiring with the installer according to the instructions in the dedicated user manual. If the error persists, contact support.
28	EV OVERLOAD	Try to start another charging session. If the error persists, contact support.
29	CHARGING SUSPENDED - VENTILATION NOT WORKING	No corrective action possible.
31	UNDER VOLTAGE	Check the power supply connected to I-CON with your installer.

I-CON EVOLUTION

32	DC LEAKAGE FAULT	Check the power supply connected to I-CON with your installer.
33	IoT PROBLEM	Check the Internet connection and the service availability of the platform the charging station is connected to.
34	TIC COMMUNICATION	Check the status of the connection with the external meter with your installer. If the error persists, contact support.
35	OTA DECRYPT ERROR	Contact support
36	OTA CHECKSUM ERROR	Contact support
37	S/C SERVER COMMUNICATION ERROR	Check that the Ethernet cable connecting the Client station to the charger network is intact.
39	S/C ERROR: COMMUNICATION WITH METER	Check that the chosen meter is properly connected and working. Attempt a Server station reboot if necessary.
40	UNAUTHORISED OFFLINE CHARGING	Modify the 'Offline authentication behaviour' parameter as appropriate from the on-board portal

12. Technical

The support service allows you to get in touch with GEWISS engineers directly to get answers to technical questions: plant engineering, regulatory, product or design software questions.

If you need support, refer to:

- the <https://www.gewiss.com/ww/en/services/support> page and click on OPEN A NEW TICKET
- or scan the QR code to be redirected to the correct page and open a ticket

DIRECT LINK



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 D.Bosatelli, 1 IT-24069 Cenate Sotto (BG) Italy tel: +39 035 946 111 E-mail: qualitymarks@gewiss.com

According to applicable UK regulations, the company responsible for placing the goods in UK market is:

GEWISS UK LTD - Unity House, Compass Point Business Park, 9 Stocks Bridge Way, ST IVES
Cambridgeshire, PE27 5JL, United Kingdom tel: +44 1954 712757 E-mail: gewiss-uk@gewiss.com



+39 035 946 111

8:30 - 12:30 / 14:00 - 18:00

lunedì - venerdì / monday - friday



www.gewiss.com

