MaxiCharger Single Charger

Installation and Operation Manual

Version 2.0

CE Model

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Content

1 About This Manual

This manual describes the installation and use of the MaxiCharger Single Charger. Prior to installation, read through this manual to get familiar with the instructions of this charging station to ensure a successful installation and smooth operations.

NOTICE

Illustrations used in this manual are only examples; the actual products or screens may differ.

1.1 Signal Word

DANGER

Indicates an imminently hazardous situation with a high risk level which, if the danger is not avoided, will cause death or serious injury.

WARNING

Indicates a potentially hazardous situation with moderate risk level which, if the warning is not obeyed, can cause death or serious injury.

CAUTION

Indicates a potentially hazardous situation with a medium risk level which, if the caution is not obeyed, may cause minor or moderate injury or damage to the equipment.

NOTICE

Provides helpful information such as additional explanations, tips, and comments.

1.2 Terminology

Term	Definition
AC	Alternating current
DC	Direct current
EV	Electric vehicle
MCB	Miniature circuit breaker
OCPP	Open charge point protocol, open standard for communication with charge stations
RFID	Radio-frequency identification; a method of charging authentication

1.3 Revision History

Version	Date	Descriptions
V1.0	2025.08.14	Initial version
V2.0	2025.09.26	Overall update

2 Safety

The safety messages herein cover situations Autel is aware of. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

- Read and follow all warnings and instructions before installing and operating the equipment.
- This equipment should only be installed by a licensed electrician in accordance with all local codes and ordinances.
- Switch off input power before installing the equipment. Keep the power off until it is fully installed and secure.
- This equipment must be grounded through a permanent wiring system or an equipment-grounding conductor.
- Do not install or use this equipment near flammable, explosive, harsh, or combustible materials, chemicals or vapors.
- Children should be supervised when around this equipment.
- Do not insert fingers or foreign objects into the electric vehicle connector.
- Do not use the equipment if the flexible power cord or EV cable is frayed, broken, or damaged, or if it fails to operate.
- Do not use the equipment if the enclosure or the EV connector is frayed, broken or otherwise damaged, or fails to operate.
- Use 90 °C wire copper conductors or refer to local ordinances.
- Do not operate the equipment outside its operating range.
- Incorrect installation and testing of the equipment could potentially damage the vehicle's battery, components, and/or the equipment itself.
- Handle the equipment with care during transportation. Do not subject it to strong force or impact or pull, twist, tangle, drag or step on the equipment, to prevent damage to it or any components.
- Adaptors or conversion adapters are not allowed to be used. Cord extension sets are not allowed to be used.
- Ensure that the miniature circuit breaker (MCB) used is a certified product.
- Use of the equipment may affect or impair the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices before using the equipment.

3 General Introduction

This charging station is designed to charge plug-in hybrid electric vehicles (PHEVs) or fully electric vehicles (EVs). It will provide you with reliable, intelligent, and scalable charging solutions.

This manual will instruct you how to install and use this charging station.

Intended Use

This charging station is intended for the AC charging of EVs. It is intended for both indoor and outdoor use.

- Residential
- Commercial
- Workplace
- Vehicle Workshop
- Fleet

NOTICE

This manual is for socket, shutter and cable models. The illustrations in this manual are for reference only, please refer to the actual product.

DANGER

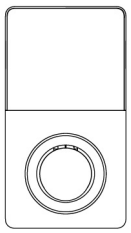
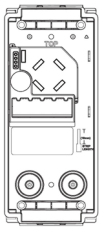
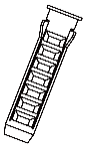
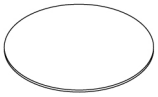
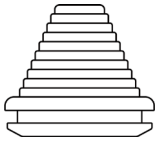
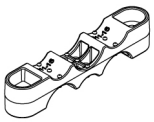
- If you use the charging station in any way other than described in this manual or other related documents, possible death, injury and damage to property can occur.
- Use the charging station only as intended.

3.1 Product Configuration

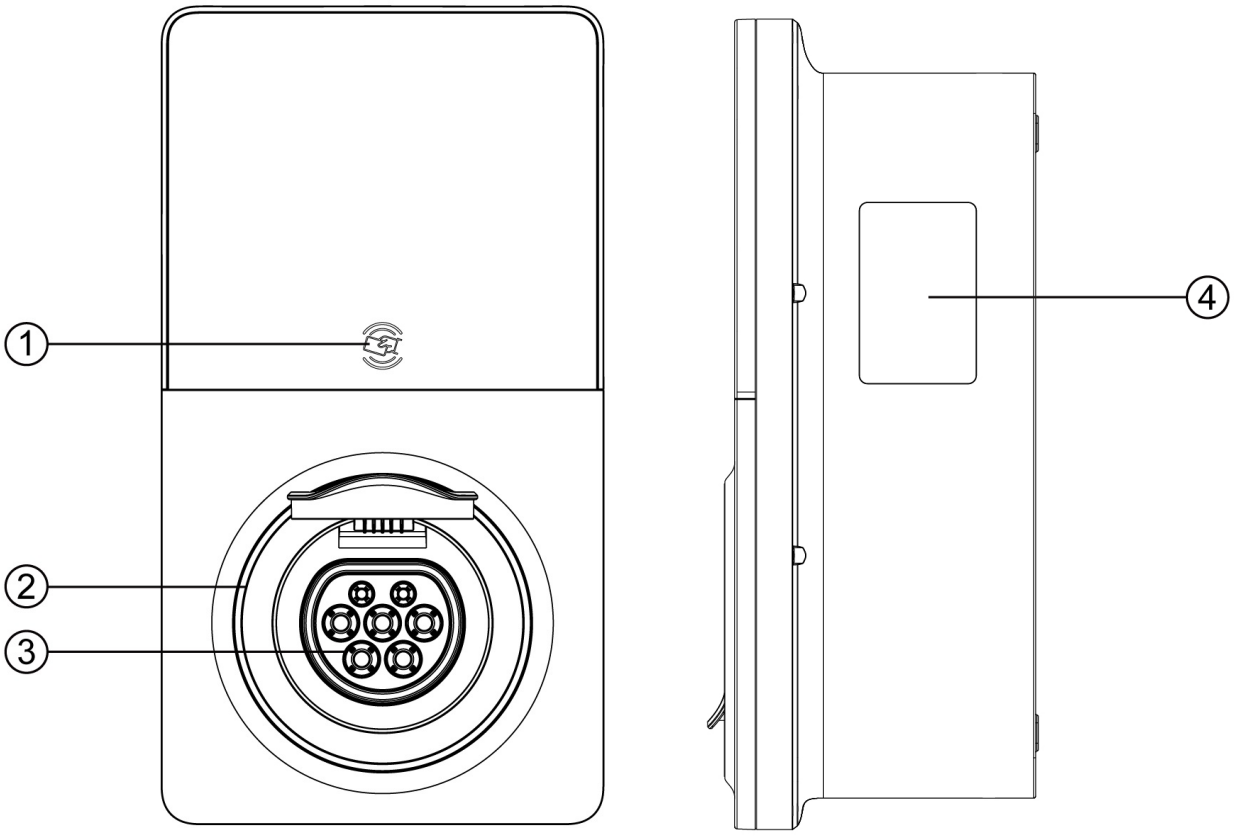
Type	Model	Display
➢ Single-phase Charging Station ➢ Three-phase Charging Station	➢ Socket Model ➢ Shutter Model ➢ Cable Model	➢ Liquid Crystal Display ➢ Digital Tube Display ➢ Without Display

3.2 In the Box

Ensure that all parts are delivered according to the order. Check the packages for the following parts.

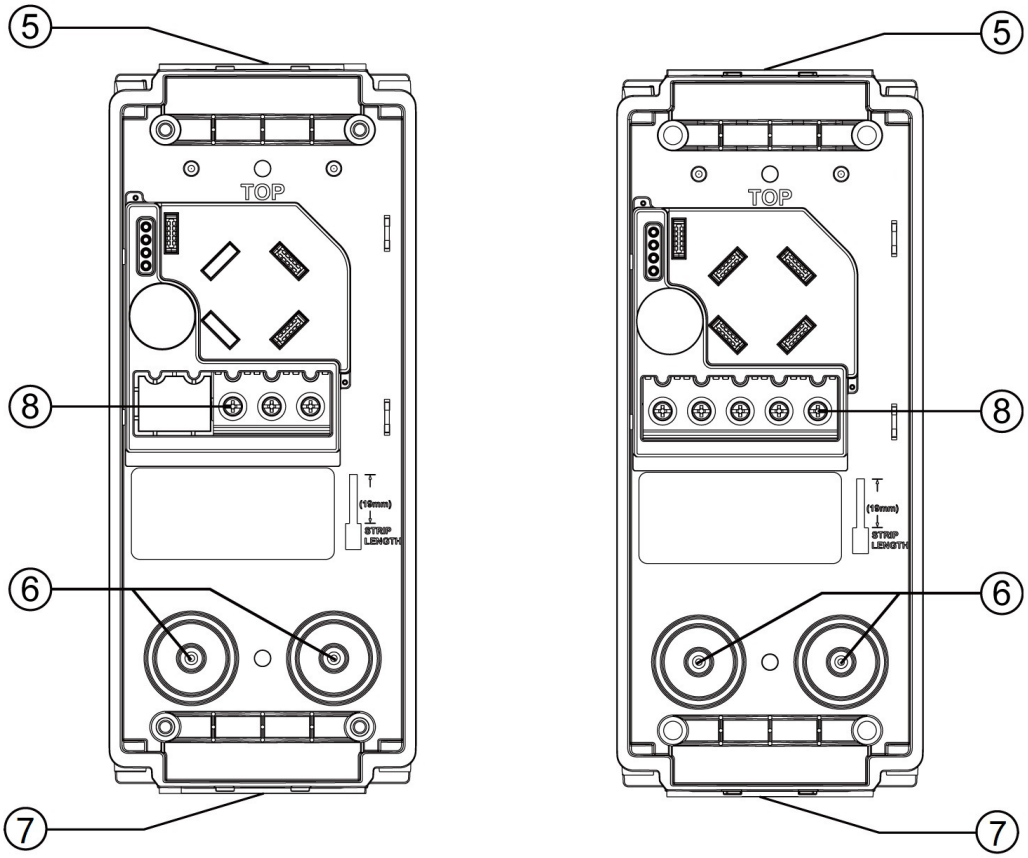
Main Unit 1 PC		Wire Box 1 PC		Self-tapping Screw φ5 x 40 mm 2 PCS	
Screw M5 x 10 mm 4 PCS		Wall Anchor φ8 x 40 mm 2 PCS		TR25 Torx Screwdriver 1 PC	
Zip Tie 2 PCS		Screw Plug (2 pcs for spare use) 4 PCS		Sealing Plug 2 PCS	
Strain Relief 1 PC		RFID Card (optional) 1 PC		Quick Reference Guide 1 PC	
Packing List 1 PC					

3.3 Product Overview



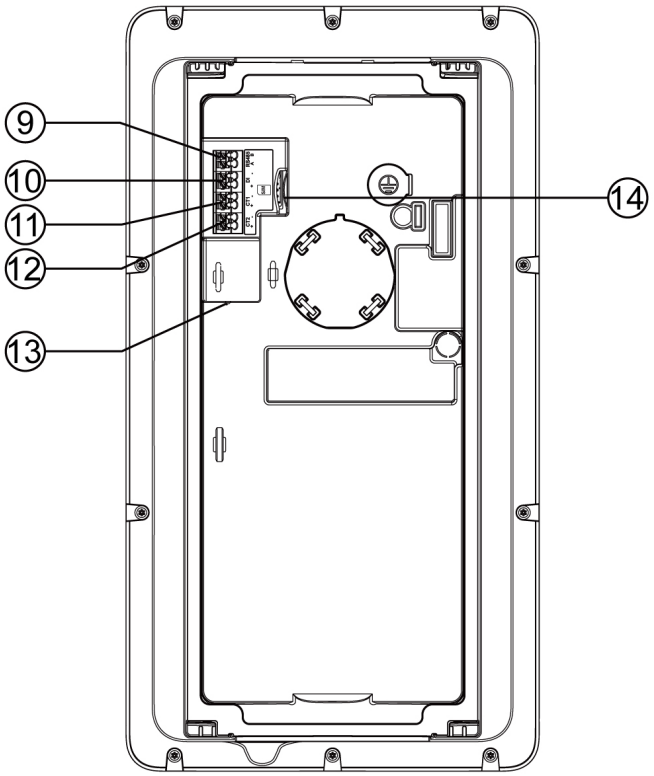
Front View **Side View**

1. RFID Reader
2. LED Indicator
3. Socket/Shutter
4. Product Label



Single-Phase Charging Station **Three-Phase Charging Station**

Wire Box



Main Unit (Rear View)

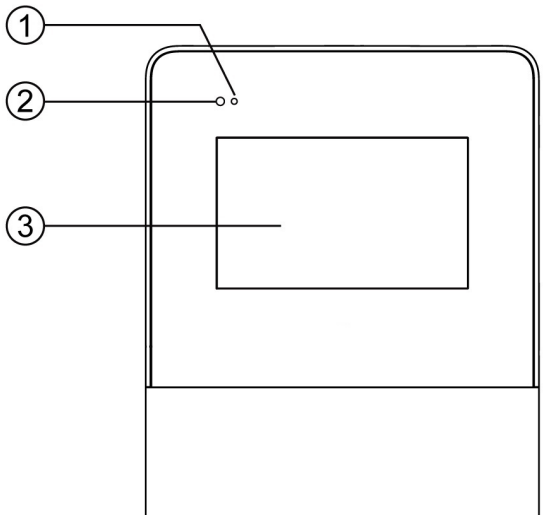
5. Top Entries
6. Rear Entries
7. Bottom Entries
8. Conductor terminals
9. RS-485 Port (Optional)
10. Dry Contact Port (Optional)
11. CT Current Sensing Port 1 (Optional)
12. CT Current Sensing Port 2 (Optional)
13. Ethernet Port (Optional)
14. SIM Card Slot (Optional)

NOTICE

- Whether there is an RS-485 port, dry contact port, CT current sensing port, Ethernet port, or SIM card slot depends on the charging station's configuration.
- The current transformer is only applicable to the single-phase power supply.

3.4 Options

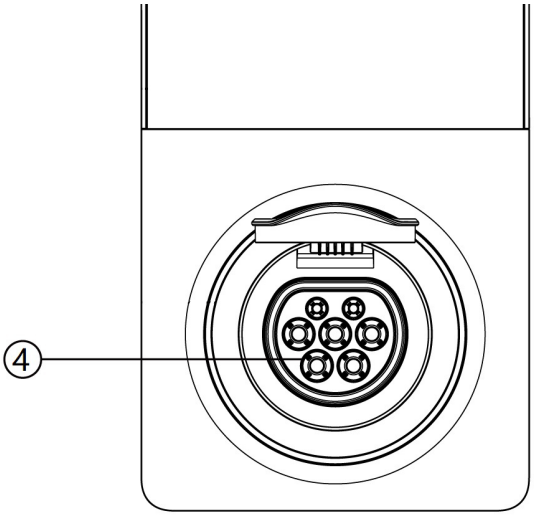
Display



1. Energy Pulse Output (Infrared Ray)
2. Ambient Light Sensor – Detects ambient brightness
3. Display (liquid crystal display or digital tube display)

Socket/Shutter Model

4. Socket/Shutter



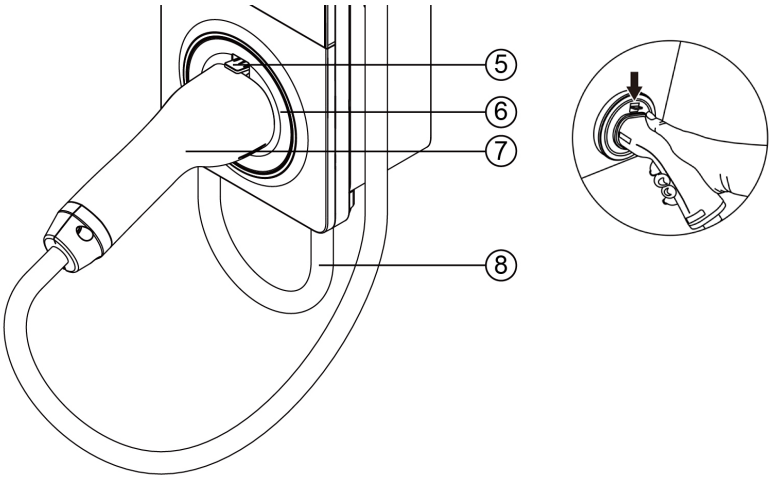
Cable Model

5. Connector Safety Lock — **Press to release the connector from its socket**

6. Socket

7. Connector

8. EV Charging Cable

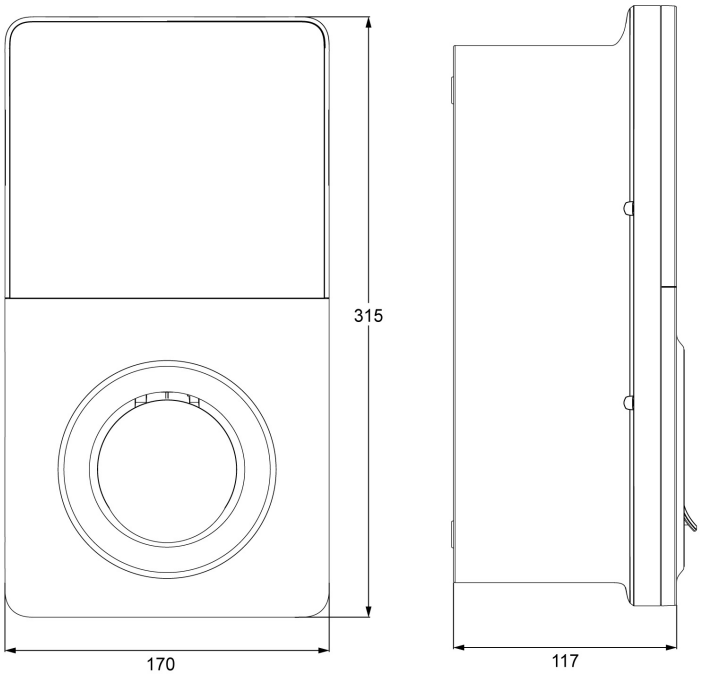


NOTICE

Drape the EV charging cable over the top of the equipment and dock the connector in its socket when not in use. See the illustration above.

3.5 Product Dimensions

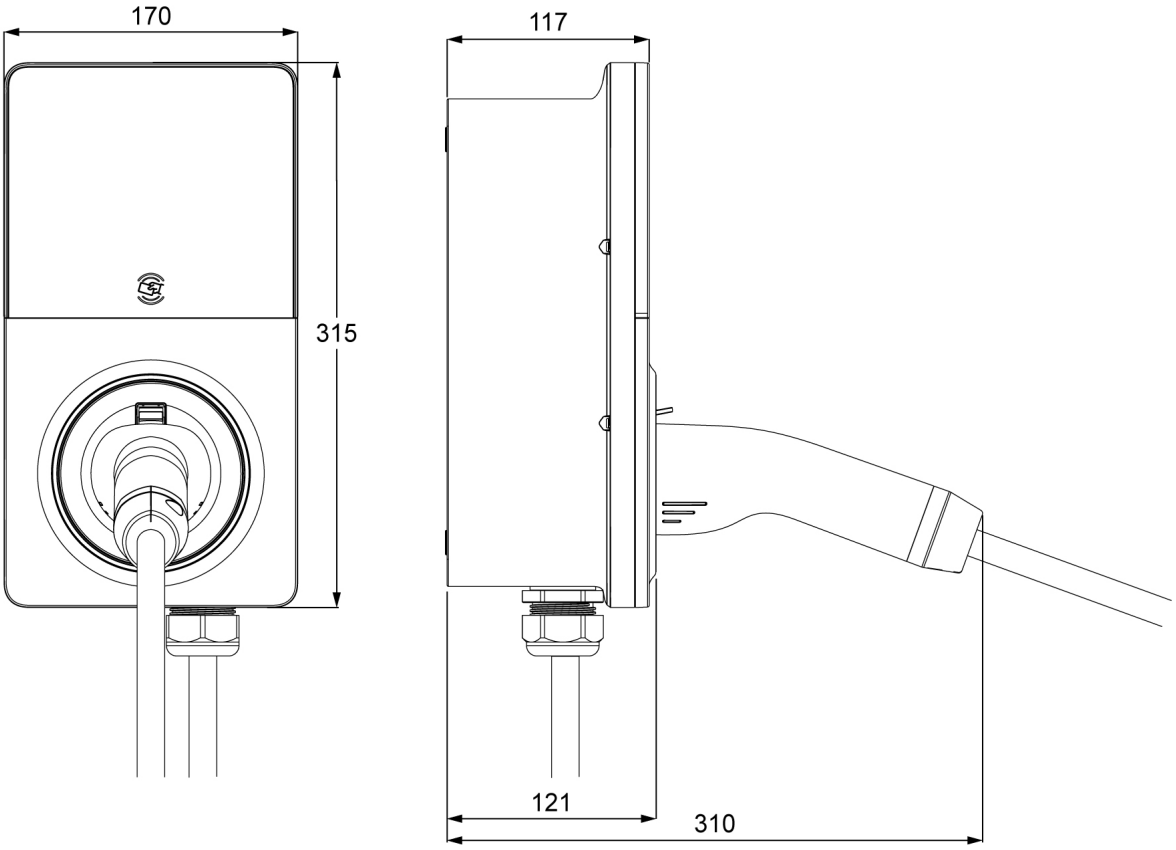
Socket/Shutter Model



Unit: mm

Front View **Side View**

Cable Model



Unit: mm

Front View **Side View**

3.6 Technical Specifications

Item	Description
AC Power Output Rating	➢ Single phase: 7.4 kW ➢ Three phase (TN/TT): 22 kW ➢ Three phase (IT): 12.7 kW
Input/Output Voltage	➢ 400 VAC ± 15%, three phase, 50/60 Hz (TN/TT) ➢ 230 VAC ± 15%, single phase, 50/60 Hz ➢ 230 VAC ± 15%, three phase, 50/60 Hz (IT)
Circuit Breaker Options (A)	➢ 7/22 kW: 40 A ➢ 11 kW: 20 A
Input Power Connections	➢ 3P + N + PE 50/60 Hz ➢ 1P + N + PE 50/60 Hz
Network type	IT (230 VAC), TT, TN
Input Cord	Hardwired
Connector Type	➢ IEC 62196 Type 2 Socket ➢ IEC 62196 Type 2 Socket with Shutter ➢ IEC 62196 Type 2 Cable (5 m/7.5 m)
Ground Fault Detection	AC 30 mA + DC 6 mA
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection
Connectivity	➢ 4G ➢ Wi-Fi ➢ Ethernet ➢ RS-485 ➢ Wi-SUN ➢ Bluetooth
Card Reader	➢ ISO 15693 ➢ ISO 14443 A/B
Metering Accuracy	±1%; MID and Eichrecht (both are for the charging station with display)

Status Indication	➢ 5 inch, 800 x 480 touchscreen + LEDs ➢ Digital tube + LEDs ➢ LEDs		
Vehicle Communication	➢ ISO 15118-2 ➢ ISO 15118-20		
User Interface	➢ Autel Charge APP ➢ Autel Config APP ➢ Autel Charge Cloud		
Communication Protocols	➢ OCPP 1.6J ➢ OCPP 2.0.1		
Software Update	OTA updates via web portal		
Authentication Methods	➢ Autocharge ➢ Plug & Charge ➢ RFID ➢ QR Code ➢ Phone Call ➢ PIN Code ➢ Bank Card (Kiosk payment terminal) ➢ Freevend		
Mounting	Wall-mounted or floor using a pedestal		
Enclosure Ratings	IP54 (IP65 for the cable model), IK10, Indoor or Outdoor Installation		
Operating Altitude	2000 m		
Operating Temperature Range	–30 to +50 °C (power will be derated over +40 °C)		
Storage Temperature Range	–40 to +70 °C		
Dimensions (H x W x D)	315 x 170 x 117 mm		
Package Dimensions (H x W x D)	492 x 370 x 254 mm		
Weight	Socket Model	7 kW	without display: 2.5 kg
			with digital tube display: 2.7 kg
		22 kW	with liquid crystal display: 3.2 kg
			with digital tube display: 3.1 kg

	Cable Model	22 kW	without display: 5.5 kg
			with liquid crystal display: 5.8 kg
			with digital tube display: 5.7 kg
Safety Standards	➢ IEC/EN 61851-1 ➢ EN 62311 ➢ EN 62479 ➢ IEC/EN 62955		
Codes and Standards	EMC Class B		
Lifespan	10 + years		

3.7 Connectivity Specifications

Radio Characteristics	Operating Frequency	Max. Transmit Power
4G Communication	(TX/RX) 880 MHz ~ 915 MHz, 925 MHz ~ 960 MHz (GSM900) 1710 MHz ~ 1785 MHz, 1805 MHz ~ 1880 MHz (DCS1800) 1920 MHz ~ 1980 MHz, 2110 MHz ~ 2170 MHz (LTE Band1) 1710 MHz ~ 1785 MHz, 1805 MHz ~ 1880 MHz (LTE Band3) 2500 MHz ~ 2570 MHz, 2620 MHz ~ 2690 MHz (LTE Band7) 880 MHz ~ 915 MHz, 925 MHz ~ 960 MHz (LTE Band8) 832 MHz ~ 862 MHz, 791 MHz ~ 821 MHz (LTE Band20)	4G LTE Cat 1 (conducted) GSM 900: 33 dBm GSM1800: 30 dBm LTE Band 1: 23 dBm LTE Band 3: 23 dBm LTE Band 7: 23 dBm LTE Band 8: 23 dBm LTE Band 28: 23 dBm
2.4G Wi-Fi	2412-2472 MHz	< 20 dBm
Wi-SUN	863.1-864.9 MHz, 865.1-867.9 MHz	< 1 dBm (ERP)
5G Wi-Fi	5470-5725 MHz 5745-5825 MHz	< 20 dBm, < 13.98 dBm
Bluetooth	2402-2480 MHz	< 10dBm

GNSS	RX 1559-1610 MHz	N/A
RFID Reader	13.56 MHz	17.56 dBµA/m @ 3m

4 Installation

4.1 Installation Preparations

4.1.1 Installation Requirements

- Install the charging station on a flat and vertical surface capable of supporting its weight (e.g., a finished wall or pedestal).
- Install the charging station in a location that allows the charging cable to remain within its bending tolerance.
- Position the charging station in a location where it is not vulnerable to being damaged.
- The recommended installation height for the charging station is between 850 to 1150 mm. The minimum outdoor installation height is 600 mm and that of indoor is 450 mm.

CAUTION

A supplement surge protection breaker must be installed at the service panel if the installation area experiences frequent thunderstorms.

4.1.2 Electrical Design

Grounding Requirements

The charging station must be connected to a grounded, metal, and permanent wiring system. An equipment-grounding conductor must be run with circuit conductors and connected to an equipment-grounding terminal or lead on the charging station.

4.1.3 Unpacking

1. Open the box.
2. Remove the charging station from the box.
3. Remove all the packaging materials from the charging station.
4. Ensure that all the parts are delivered according to the order.
5. Inspect the charging station and the parts for damage. If you find damage or the parts are not consistent with the order, contact your local dealer.

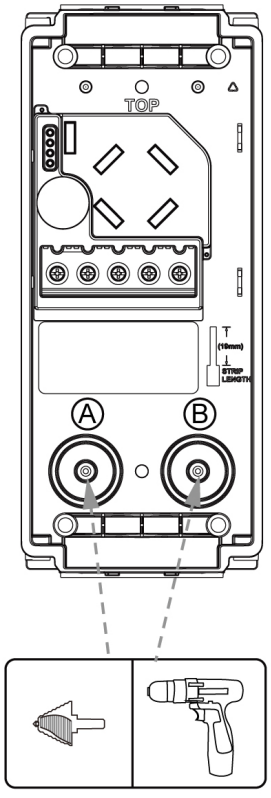
4.1.4 Cable Entry Options

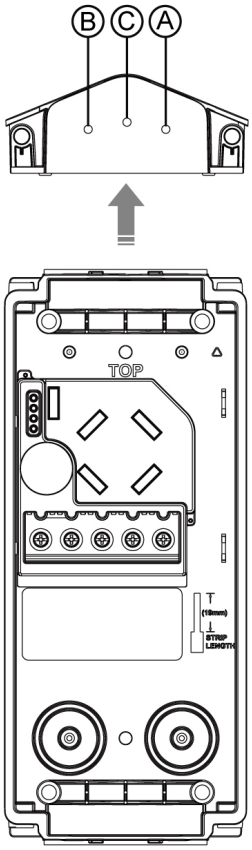
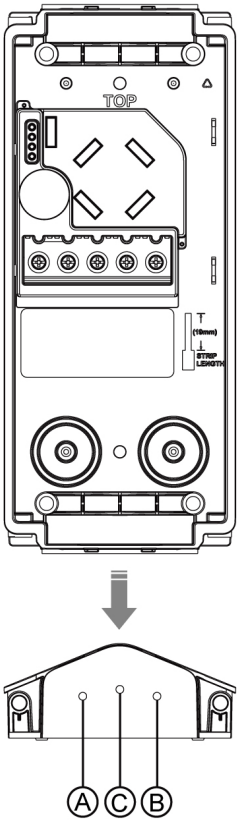
The recommended cable entry options are described below. Choose the cable entry as required.

Cable Entry Hole	Cross Section	Diameter of the Cable Entry Hole
A	Max. 10 mm²	Max. 29 mm
B	Max. 10 mm²	Max. 29 mm
C	Max. 16 mm²	Max. 35 mm

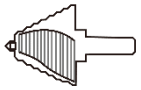
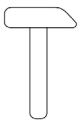
NOTICE

- Use a power drill with the 29 mm or 35 mm step bit to drill the cable entry hole to the appropriate size based on the cable's cross section.
- Ensure the diameter of the drilled hole does not exceed the maximum allowable limit.
- Do not drill holes A, B, and C simultaneously. Drill either holes A and B, or just hole C.

Cable Entry Options	
Rear Entry	

Top Entry	
Bottom Entry	

4.1.5 Recommended Tools

Tape Measure		Marker	
Wire Stripper		Step Bit (29 mm or 35 mm)	
Power Drill		Drill Bit 6 mm and 8 mm	
Torque Driver (2 Nm)		Phillips Bit (PH2)	
Multimeter		Scissors	
Flathead Screwdriver		Torx Bit (TR25)	
Phillips Screwdriver		Spirit Level	
Hammer			

NOTICE

The tools mentioned above are not included in the package. Ensure they are readily available prior to installation.

4.1.6 Pre-configuration (Optional)

For the site with commercial charging stations intended to be installed and activated via online ticket, pre-configuration should be performed on the Autel Operation and Maintenance Platform before installation. Scan the QR code in **chapter 5** for more details.

4.2 Installation Instructions

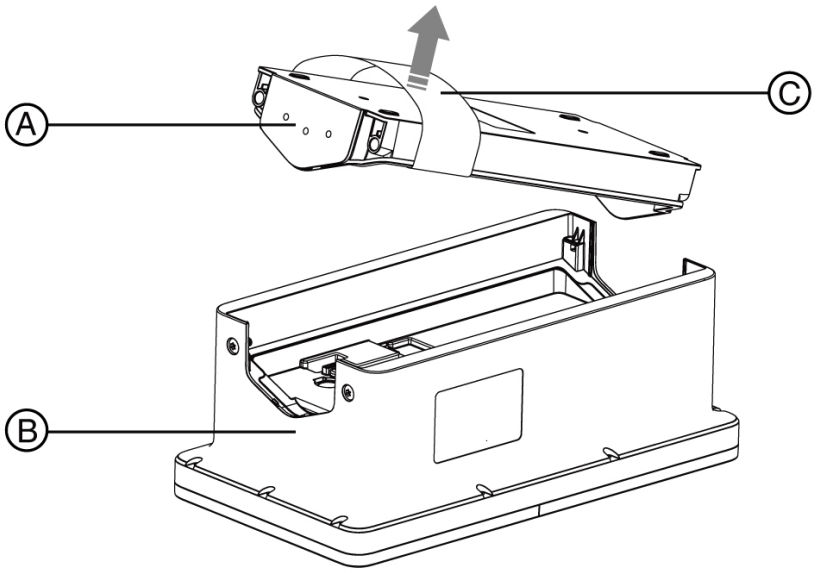
4.2.1 Installing the Charging Station

DANGER

Risk of electric shock. Turn off the power to the outlet at the circuit breaker until the installation is completed.

STEP 1

Detach the wire box (**A**) from the main unit (**B**) by pulling the pull strap (**C**).



NOTICE

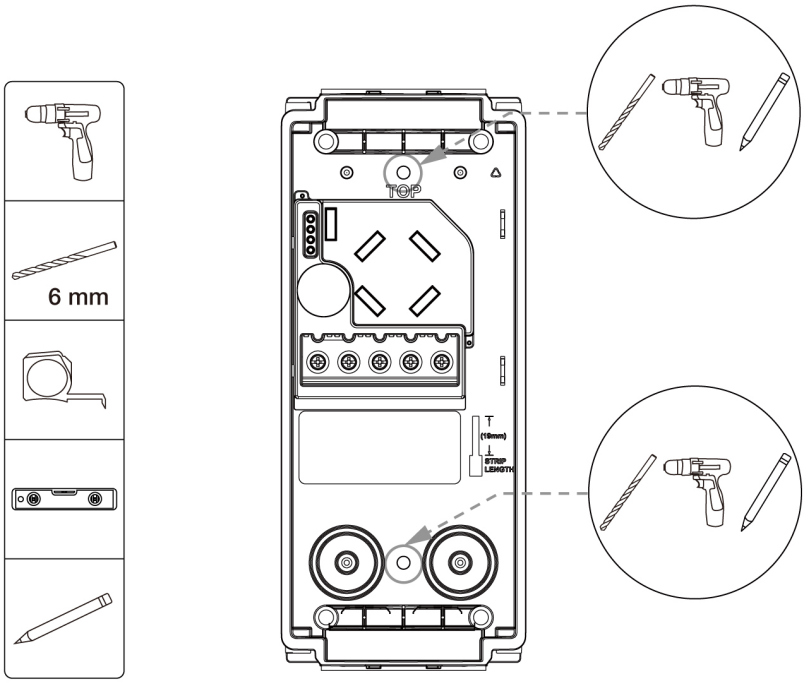
Do not remove the pull strap before installing the wire box. If the pull strap is removed and the wire box is attached and secured to the main unit, it will be difficult to remove the wire box.

STEP 2

Use a power drill to drill the cable entry hole(s) to the appropriate size based on the cable's cross section. For detailed specifications, refer to section *4.1.4*.

STEP 3

1. Use a power drill with the 6 mm drill bit to drill the two mounting holes into the wire box.
2. Place the wire box against the wall at a height of 850 – 1150 mm and level it using a spirit level.
3. Mark the two mounting holes using a marker and remove the wire box temporarily.



STEP 4 (Rear Entry Only)

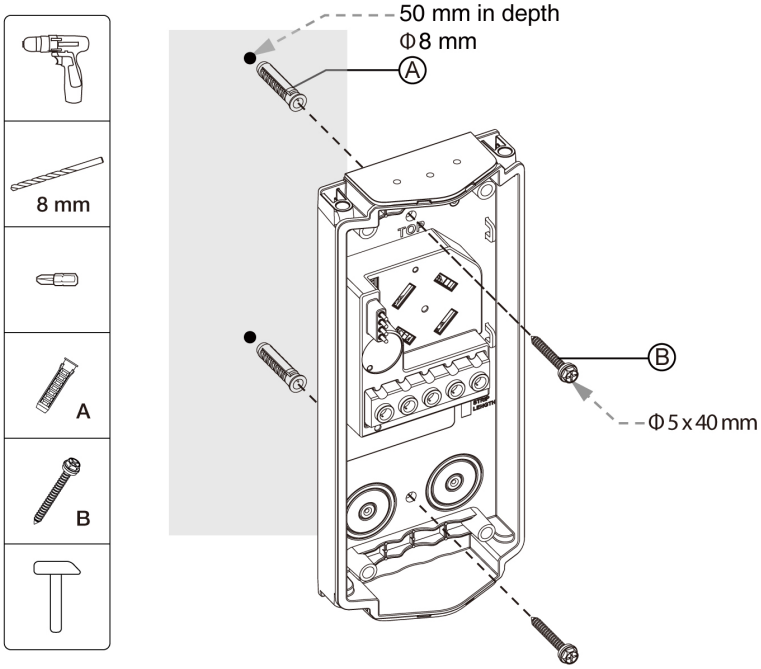
See the instructions on **Page 22** for reference to route the power cables and data cable into the wire box and cut the sealing plugs.

STEP 5

1. Drill 50 mm into the two holes measuring 8 mm in diameter.

2. Tap the two wall anchors (**A**) into the holes using a hammer.

3. Place the wire box against wall aligning with the two holes. Then insert and tighten the two φ5 x 40 mm self-tapping screws (**B**) using a power drill with the Phillips bit (PH2) to secure the wire box.

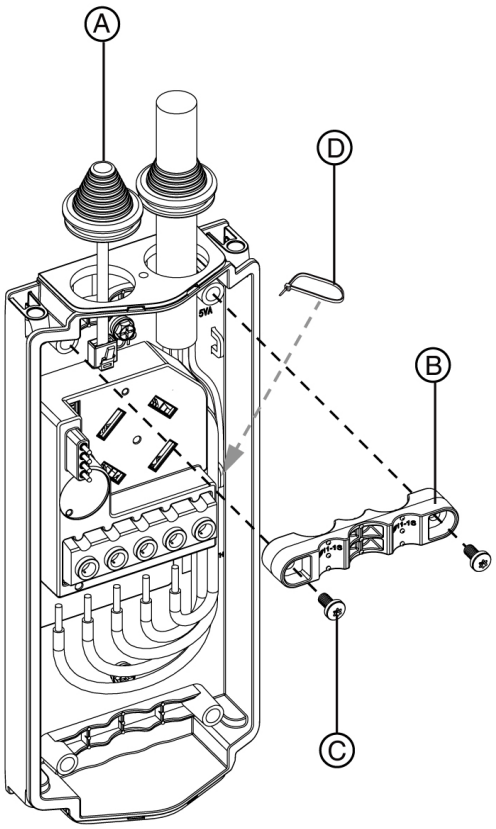


4.2.2 Cable Connection

Route the cables into the charging station according to the cable entries.

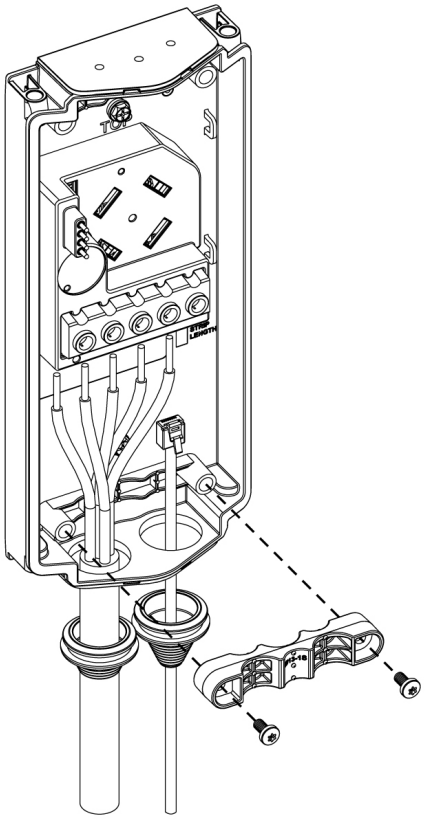
Top entry:

1. Use a pair of scissors to cut two sealing plugs (**A**) to fit the AC input cable and data cable. Make the holes smaller than the cables to ensure a good fit.
2. Push the sealing plugs to cling to the entries.
3. Route the power cables and data cable into the wire box from the top.
4. Install a strain relief (**B**) by inserting the two M5 x 10 mm screws (**C**). Use the torque driver with a Torx bit (TR25) to tighten the screws. The torque is 1.5 Nm.



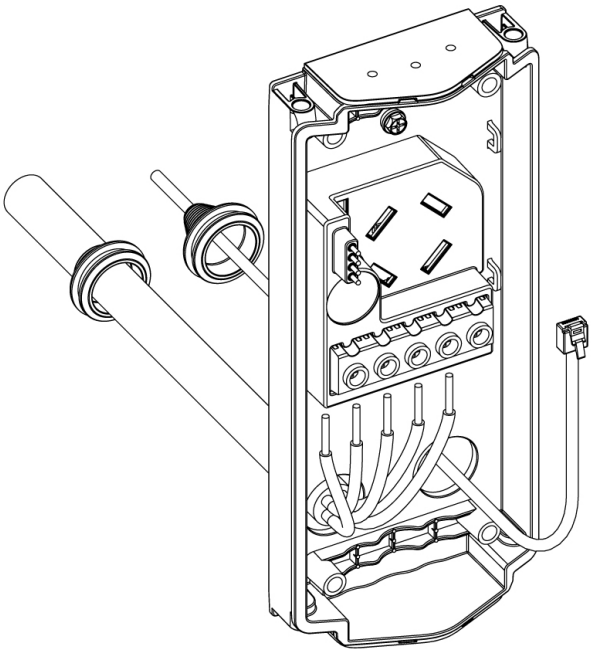
Bottom entry:

1. Use a pair of scissors to cut two sealing plugs to fit the AC input cable and data cable. Make the holes smaller than the cables to ensure a good fit.
2. Push the sealing plugs to cling to the entries.
3. Route the power cables and data cable into the wire box from the bottom.
4. Install a strain relief by inserting the two M5 x 10 mm screws. Use the torque driver with a Torx bit (TR25) to tighten the screws. The torque is 1.5 Nm.

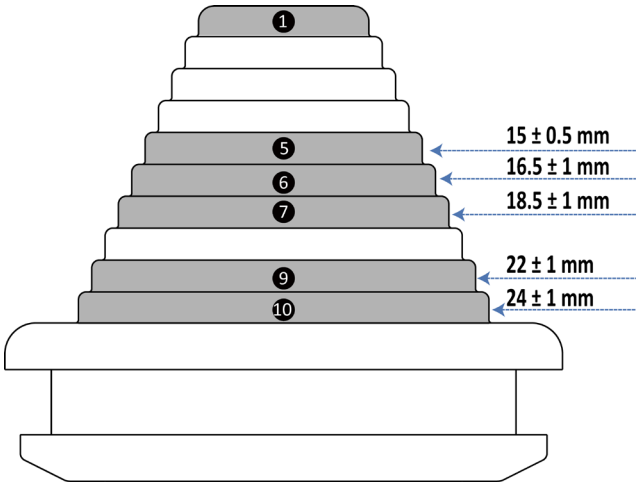


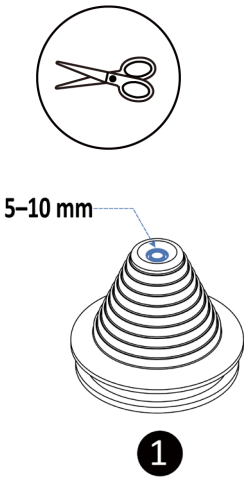
Rear entry:

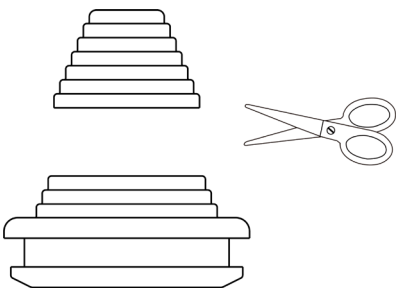
1. Use a pair of scissors to cut two sealing plugs to fit the AC input cable and data cable. Make the holes smaller than the cables to ensure a good fit.
2. Push the sealing plugs to cling to the entries.
3. Route the power cables and data cable into the wire box from the rear.



Use a pair of scissors to cut two sealing plugs referring to the diagrams to fit the AC input cable and data cable. Make the holes smaller than the cables to ensure a good fit.







NOTICE

In some countries, compression glands (M25 or M32) and conduits (20 mm or 25 mm) are used in place of sealing plugs.

4.2.2.1 Power Cable Connection

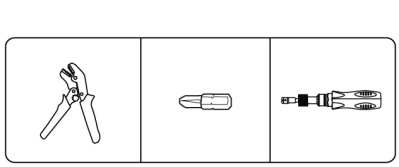
1. Strip the wires to 19 mm.

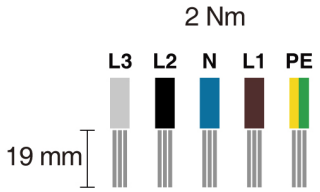
2. Connect the wires according to the diagram below and tighten each terminal screw to 2 Nm with a Phillips bit (PH2) or a Phillips screwdriver.

   - L1 (Brown)
   - L2 (Black)
   - L3 (Grey)
   - Neutral (N, blue)
   - Earth (PE, green/yellow striped)

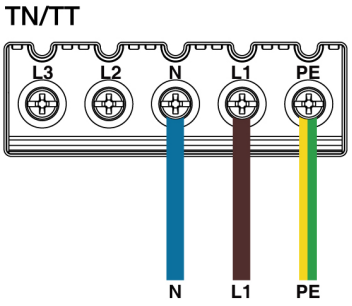
3. Use the zip tie (**D**) to organize the cables (for the top entry only). See the table **above** for details.

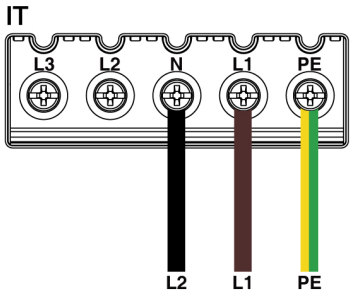
➢ **Three-phase Charging Station Wiring**



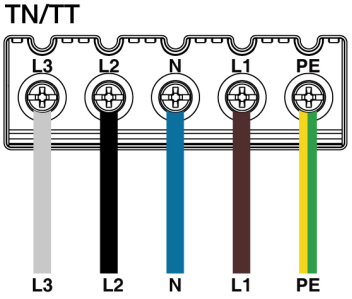


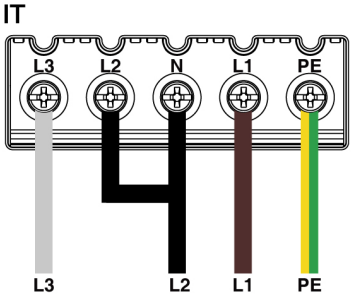
Single-phase Wiring



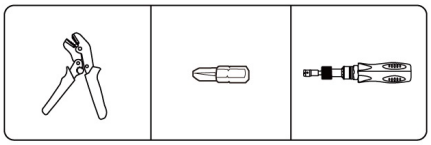


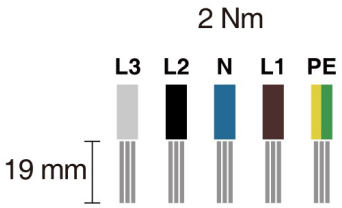
Three-phase Wiring

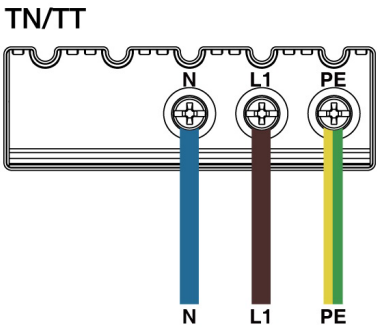


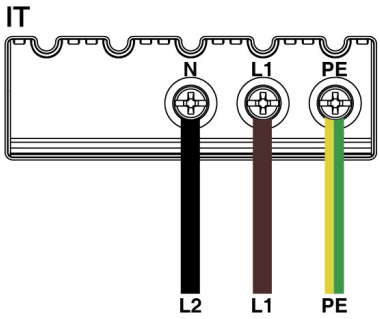


➢ Single-phase Charging Station Wiring



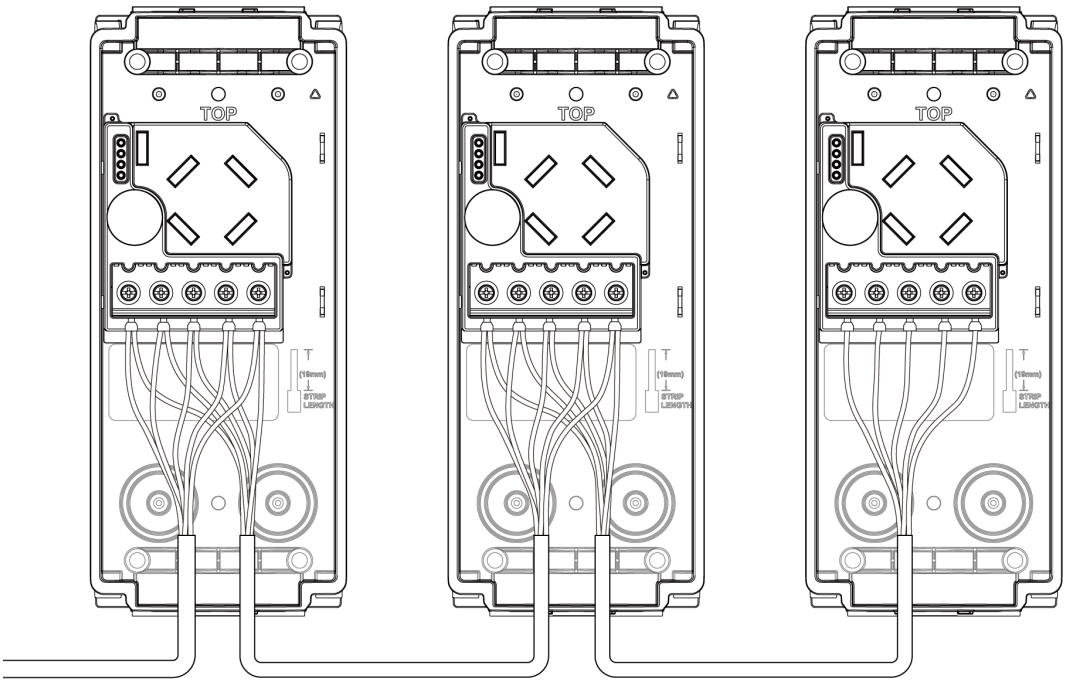






Parallel Connection Application

If you have more than one charging station, the AC input cables and data cable should be routed into the wire box from the bottom entries. Each terminal port can be used as a connection point to the adjacent charging station on the same circuit, thus realizing parallel connection.



NOTICE

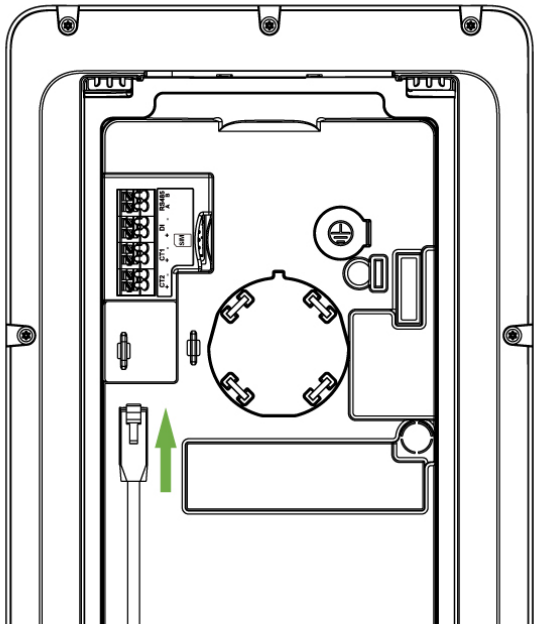
The illustration above is for reference only. Please refer to the actual product and scenario.

4.2.2.2 Internet Connection (Optional)

This charging station can be connected to the Internet via Ethernet, cellular network or Wi-Fi.

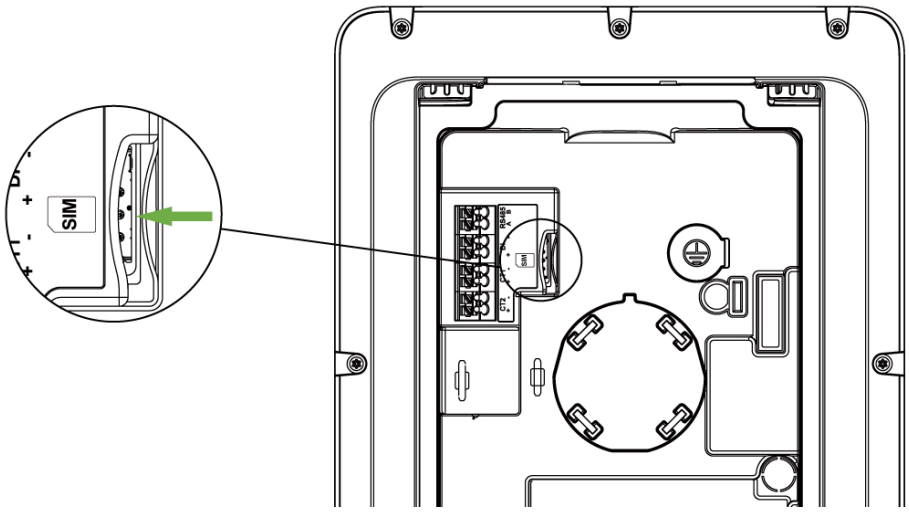
Ethernet Connection

Plug the Ethernet cable into the RJ45 port at the back of the main unit.



Cellular Network Connection

Insert the SIM card into the slot. Ensure the card is placed correctly. When you're ready to remove it, push it again and it will eject.



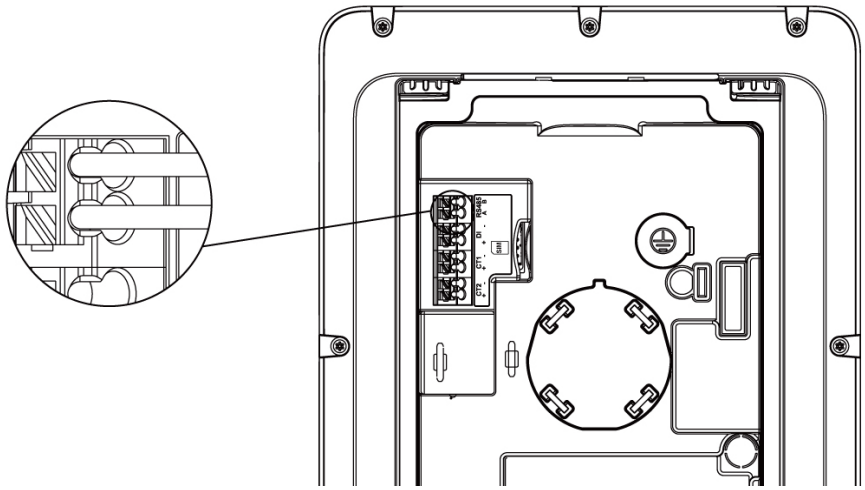
NOTICE

Check if the SIM card is making proper contact with the slot to avoid contact issues and connectivity problems.

4.2.2.3 RS-485 Cable Connection (Optional)

1. Use a flathead screwdriver to press and hold the button above the RS-485 port.

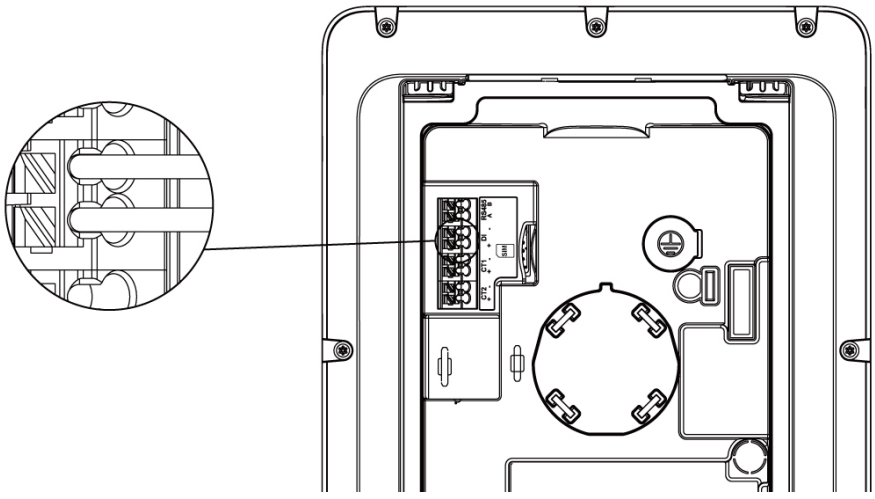
2. Connect the RS-485-A wire to the port marked "**A**" and the RS-485-B wire to the port marked "**B**".



4.2.2.4 Dry Contact Cable Connection (Optional)

1. Use a flathead screwdriver to press and hold the button above the dry contact port.

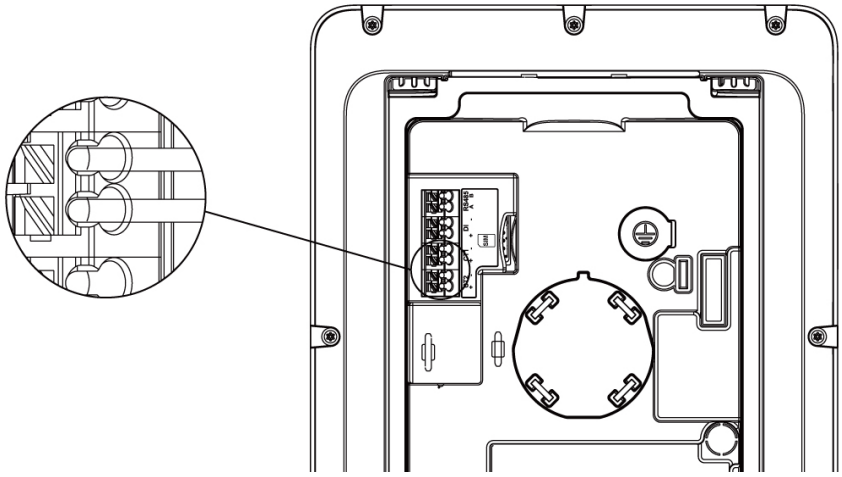
2. Connect the dry contact cables as shown.



4.2.2.5 Current Transformer Cable Connection (Optional)

1. Use a flathead screwdriver to press and hold the button above the CT current sensing port.

2. Connect the corresponding cables to the appropriate port according to their positive and negative polarity.



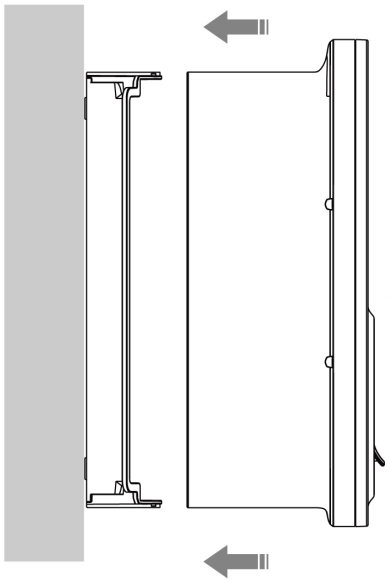
NOTICE

The current transformer is only applicable to the single-phase power supply.

4.2.3 Finishing Installation

STEP 1

Push the main unit onto the wire box. Ensure they are securely attached.

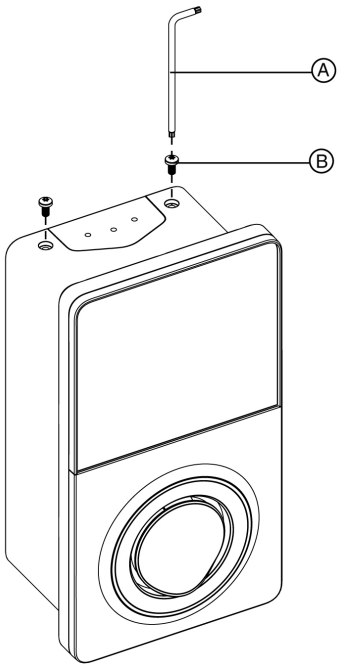


NOTICE

To attach the main unit to the wire box, start by fastening the bottom, then the top. The installation is secure only when you hear two "**CLICK**" from the bottom of the equipment. After installation, check to ensure the equipment is properly installed and free of leaks or gaps.

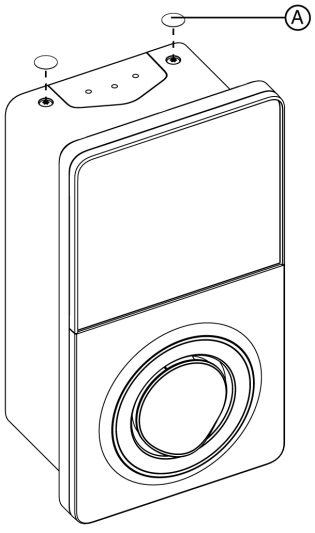
STEP 2

Install and tighten the two M5 x 10 mm screws (**B**) using a TR25 Torx screwdriver (**A**) to secure the charging station.



STEP 3

Install the two screw plugs (**A**). Ensure the contact pins fit the contacts in the main unit.



The installation is now completed.

5 Commissioning

- Ensure that the equipment is installed according to the instructions in this manual.
- Ensure that all the screws are tightened to the correct torque after the wiring is completed, and that there are no loose screws at the conductor terminals.
- Ensure there is no copper wire or debris left inside of the equipment before switching on the electrical power to the equipment.
- Once the equipment is properly installed and all electrical connections have been safely made, switch on the power to the circuit from the circuit breaker and wait for the power supply to come on. There will be a series of self-checks. Make sure that the equipment works correctly and safely.

WARNING

Be careful when working with electricity.

Scan the QR code below to access the instructions for commissioning.

6 Usage

6.1 Product Usage

6.1.1 Starting Charging

Socket/Shutter Model

1. Insert the connector into the EV charging port and the charging station socket outlet.
2. Choose one of the following ways to start a charge session:
   - Use the Autel Charge app by tapping **Start** on the Charging screen.
   - Tap your RFID card on the RFID reader.
   - If the Auto Start function is enabled in the Autel Charge app, the charging station will automatically start charging once the connector is properly connected.
   - If you have set a charging schedule in the Autel Charge app, the charging station will initiate a charge session automatically as scheduled.
   - If the charging station has a display, tap on the touchscreen and authorize charging via QR code or RFID card.

Cable Model

1. Remove the connector from the socket.
2. Plug the connector into the EV charging port.
3. Choose one of the following ways to start a charge session:
   - Use the Autel Charge app by tapping **Start** on the Charging screen.
   - Tap your RFID card on the RFID reader.
   - If the Auto Start function is enabled in the Autel Charge app, the charging station will automatically start charging once the connector is properly connected.
   - If you have set a charging schedule in the Autel Charge app, the charging station will initiate a charge session automatically as scheduled.
   - If the charging station has a display, tap on the touchscreen and authorize charging via QR code or RFID card.

NOTICE

Ensure that the EV is charging. If charging issues persist, try reconnecting the connector or contact Autel technical support.

6.1.2 Stopping Charging

NOTICE

- If the connector is unplugged from the EV during a charge session, the charging station will automatically disconnect the power supply. This stops all charging operations.
- When the vehicle is fully charged, the charging station will automatically stop the charging operation.

Socket/Shutter Model

1. To stop charging, choose any of the following ways:
   - Wait for the charge session to end and no further actions are required in the case of scheduled charging or Auto Start.
   - Tap the **Stop** button on the Charging screen of the Autel Charge app.
   - Tap the RFID card on the RFID reader.
   - If the charging station has a display, tap **Stop** on the Charging screen.
2. Remove the connector from the charging station socket outlet and the EV charging port.

Cable Model

1. To stop charging, choose any of the following ways:
   - Wait for the charge session to end and no further actions are required in the case of scheduled charging or Auto Start.
   - Tap the **Stop** button on the Charging screen of the Autel Charge app.
   - Tap the RFID card on the RFID reader.
   - If the charging station has a display, tap **Stop** on the Charging screen.
2. Unplug the connector from the EV and return it to the socket.

6.2 LED Indicator Description

LED Indicator Description

Color	Light	Description
Yellow	**Solid Yellow**	➢ The charging station is disabled after being activated. ➢ The charging station is updated.
Green	**Solid Green**	The charging station is available (activated).
	Flashing Green	The charging station is being activated.
	Breathing Green	➢ The charging station is not activated. ➢ The charging station is being powered on.
	Chasing Green	Acts as the primary charging station and activates the secondary charging station.
Blue	**Solid Blue**	➢ The connector is plugged into an EV and the charging station waits for authentication. ➢ An EV finishes charging and the connector waits for being unplugged.
	Breathing Blue	Charging status.
Red	**Solid Red**	➢ Malfunction status. ➢ The charging station is unavailable.
Cyan	**Solid Cyan**	The charging station has been reserved.
	Cyan light flashes three times	The charging station's hotspot is opened manually.

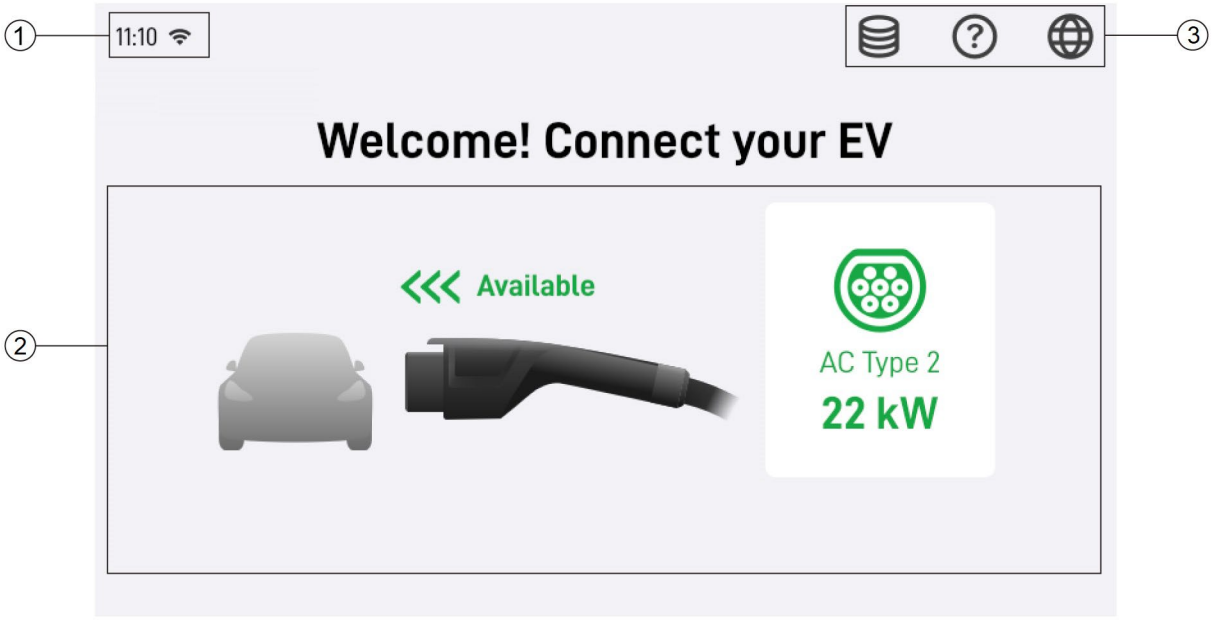
6.3 Display Description

6.3.1 Liquid Crystal Display

Function Button Description

Function Button	Description
Home	Tap to return to the Standby screen.
Cancel	Tap to cancel an operation.
Stop	Tap to stop charging.
Finish	Tap to finish a charge session and enter Charging Details screen.

Standby Screen



1. Time and Internet icon
2. Main screen—demonstrates connector information
3. Pricing details, user guide, and language options

Authorization Screen

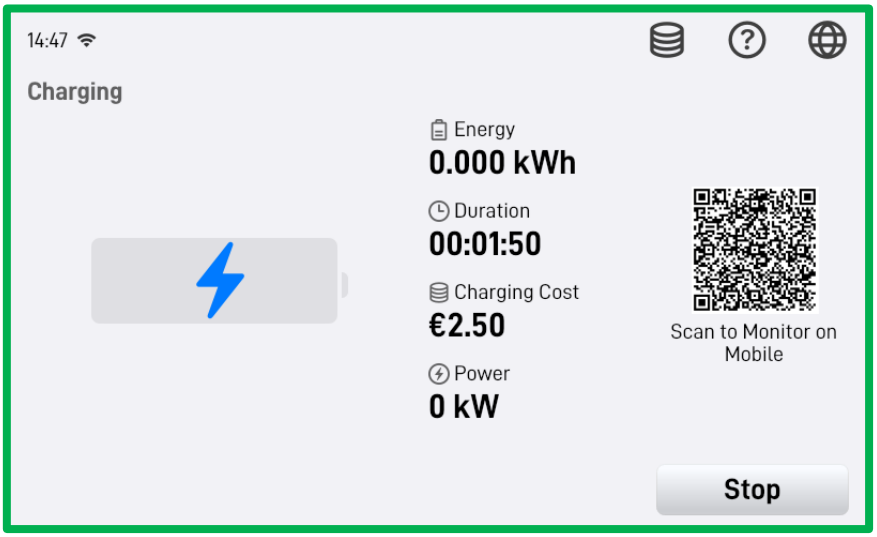
Choose a method (such as RFID card, QR Code, etc.) to authorize charging on the Authorization screen.

Charging Screen

Once the connector is properly connected, the vehicle will establish communication with the charging station and a charge session will start.

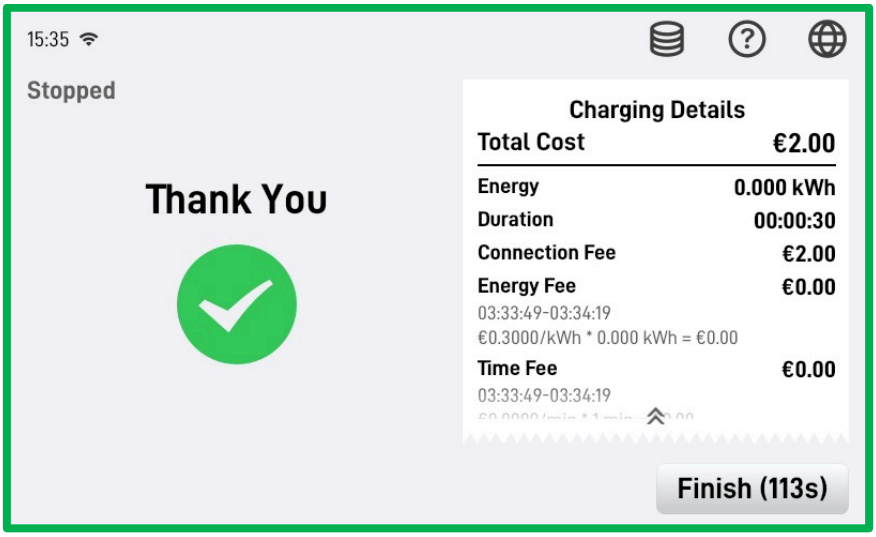
The energy, charging duration, charging cost, and power will appear on the Charging screen.

Tap the **Stop** button to stop charging.



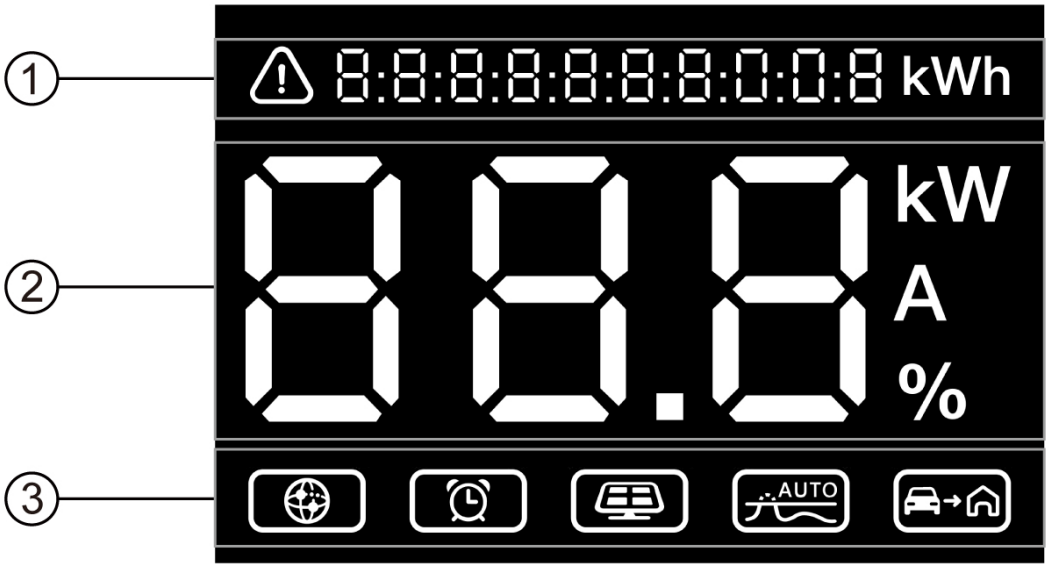
Charging Details Screen

If a charge session is ended, the Charging Details screen will appear.



6.3.2 Digital Tube Display

The digital tube display includes three display areas: top, middle, and bottom. Details are as follows:



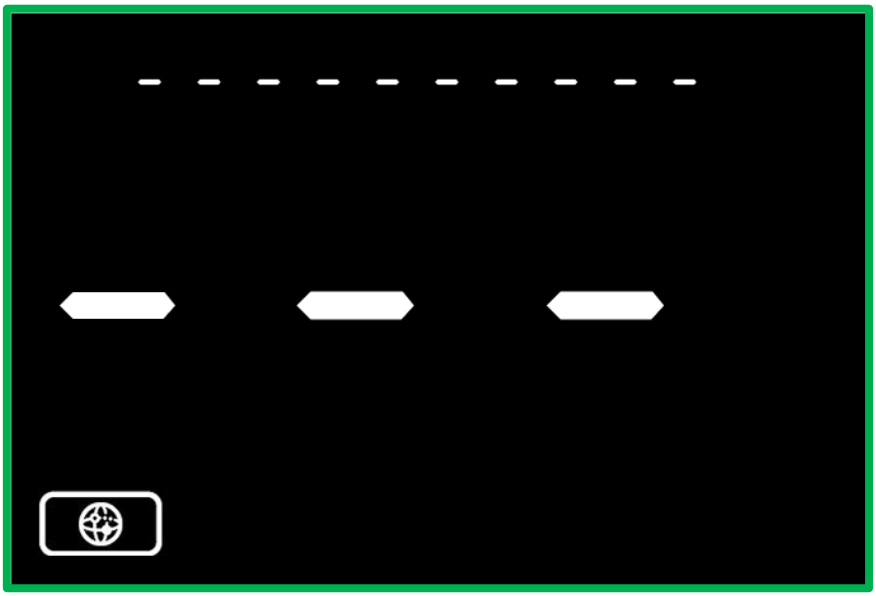
1. Energy, error code, and time
2. Charging power, charging current, and state of charge
3. Function status indicator. See the table below for details

Status Indicator Descriptions (from left to right)

No.	Indicator	Status	Description
1	Network Status Indicator	Steady On	The device is connected to the Internet.
		Steady Off	The device is not connected to the Internet.
2	Timing Status Indicator (For Residential Use)	Steady On	Scheduled charging is set.
		Steady Off	Scheduled charging is not set.
	Reservation Status Indicator (For Commercial Use)	Steady On	The charging station is reserved and within the reservation countdown.
		Steady Off	The reservation countdown is ended, or the authorization is passed.
3	Photovoltaic Charging Status Indicator	Steady On	The full green charging mode and the green priority charging mode are set.
		Steady Off	The full green charging mode and the green priority charging mode are not set.
4	ALM/DLB Mode Status Indicator	Steady On	The ALM mode and DLB mode are set.
		Steady Off	The ALM mode and DLB mode are not set.
5	Vehicle-to-Home Mode (V2H)/Vehicle-to-Grid Mode (V2G) Status Indicator	Steady On	The V2H mode and V2G mode are set.
		Steady Off	The V2H mode and V2G mode are not set.

Unactivated Screen

- Top display area: Only the middle horizontal segment of each digit position lights up and remains steady.
- Middle display area: Displays “- - -” and remains steady.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.

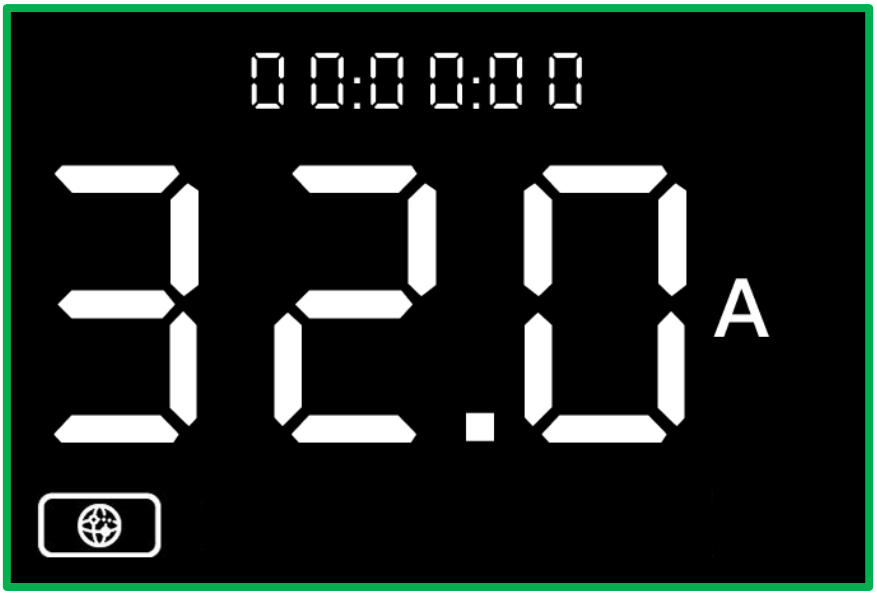


Standby Screen

- Top display area: Displays the time.
- Middle display area: Displays the rated power.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.

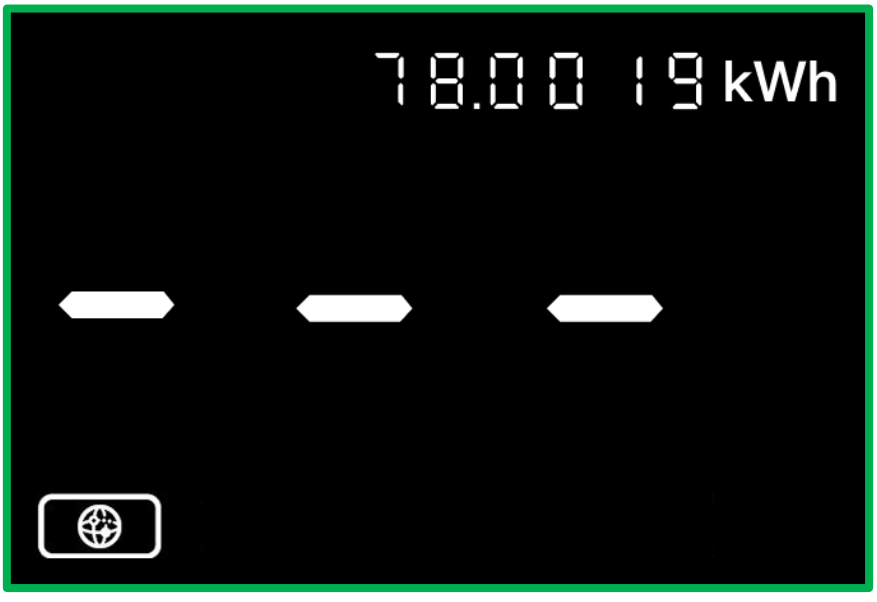
Charging Screen

- Top display area: The duration and energy of the current session, as well as the total energy of connector, are displayed in an alternating sequence.
- Middle display area: The power and current are displayed in an alternating sequence.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.



Finish Charging Screen

- Top display area: The charge quantity of the current session and the total capacity are displayed in an alternating sequence.
- Middle display area: Displays “- - -”.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.



Error Screen

- Top display area: Displays an exclamation mark and error code.
- Middle display area: Displays “**Err**”.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.

Update Screen

- Top display area: Displays the time.
- Middle display area: Displays “**UPd**”.
- Bottom display area: Displays according to the actual status. See the status indicator descriptions above.

Disabled by the Backend Screen

– Top display area: Displays the time.

– Middle display area: Displays “**UnA**”.

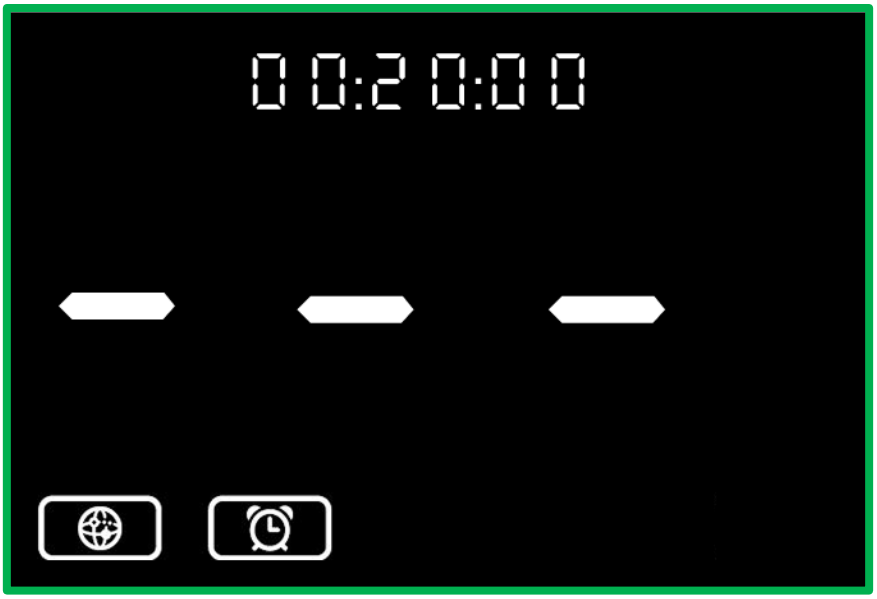
– Bottom display area: Displays according to the actual status. See the status indicator descriptions above.

Reservation Screen

– Top display area: Displays the reservation countdown.

– Middle display area: Displays “- - -”.

– Bottom display area: Displays according to the actual status. See the status indicator descriptions above.



6.4 Setting the OCPP Parameters

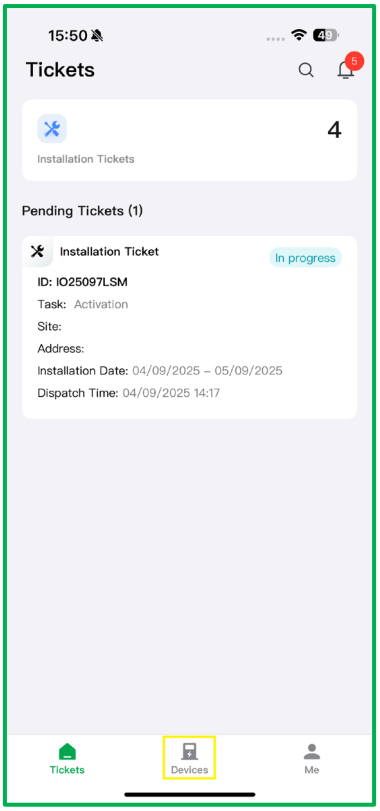
The OCPP parameters can be set via the Autel Config App and Autel Charge App.

NOTICE

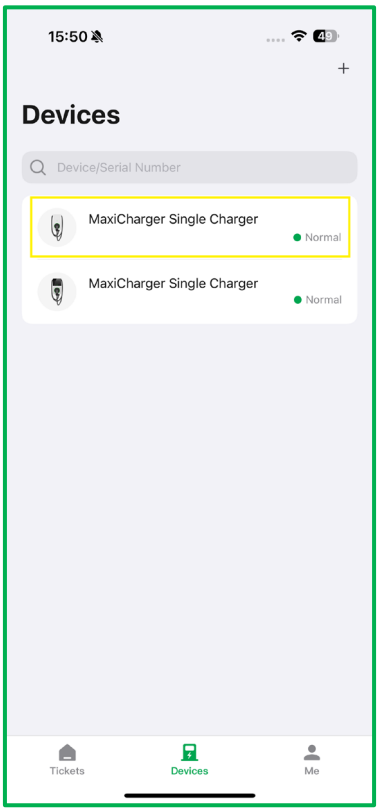
- The OCPP parameter settings should be performed by an installation engineer.
- The illustrations depicted in this section may differ slightly from the actual product.

6.4.1 Via Autel Config App

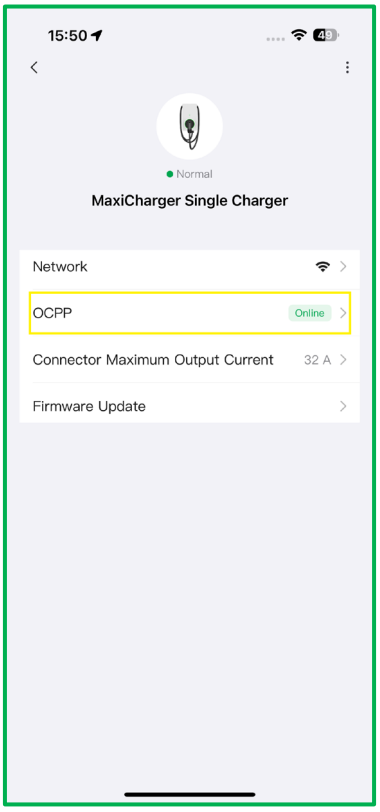
1. Launch and log in to the Autel Config app. On the Tickets screen, tap **Devices** to proceed.



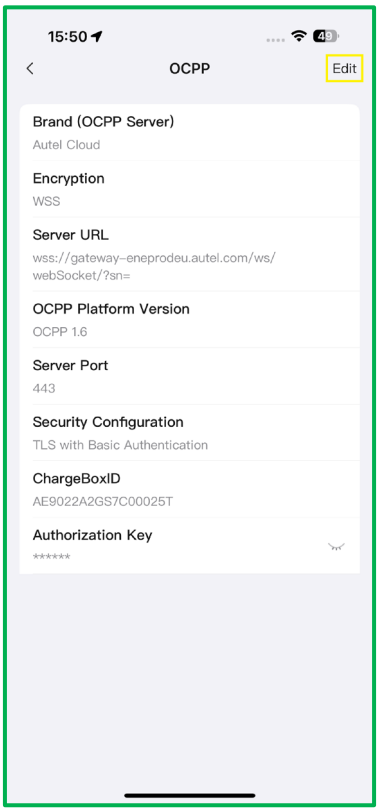
2. On the Devices screen, select the charging station as required.



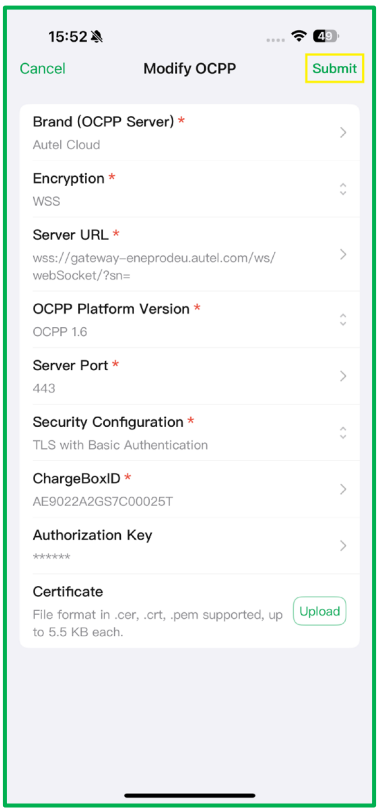
3. Tap **OCPP** to proceed.



4. On the OCPP screen, tap **Edit** on the upper-right of the screen.

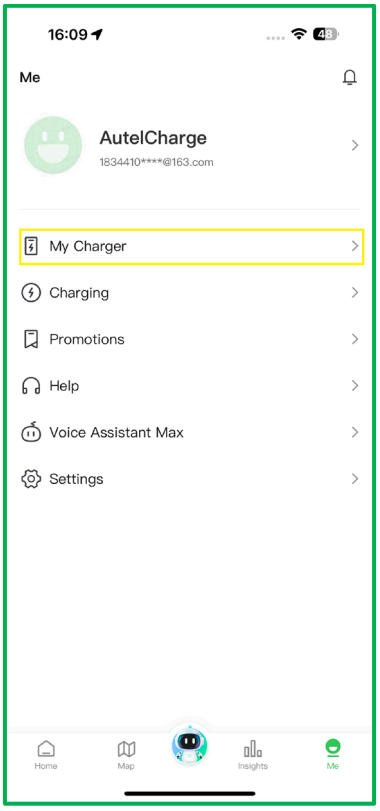


5. Set the OCPP parameters according to actual requirements. After the setting is completed, tap **Submit** on the upper-right of the screen to save the settings.

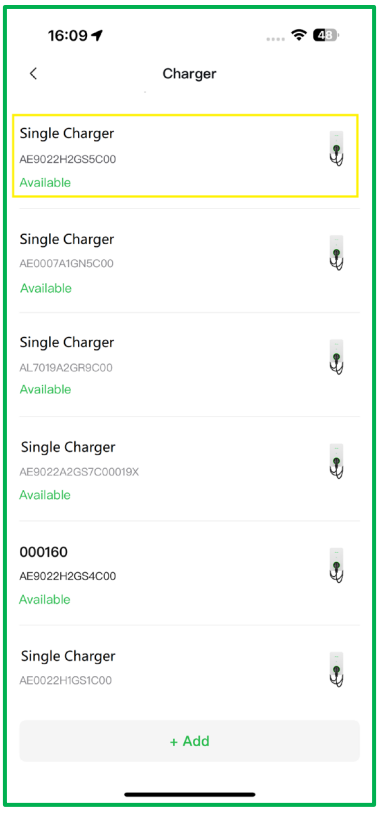


6.4.2 Via Autel Charge App

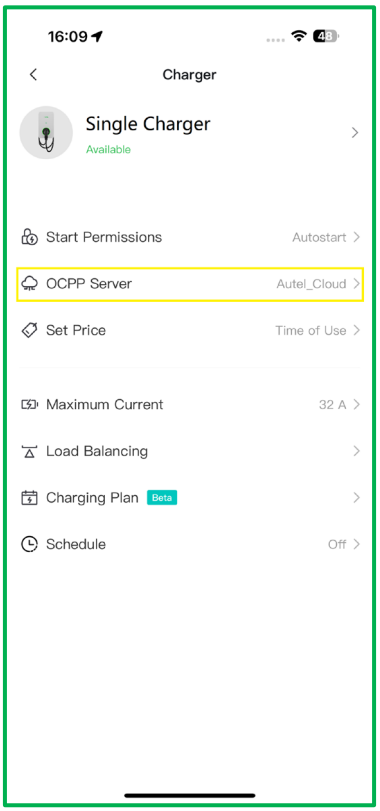
1. Launch and log in to the Autel Config app, and then tap **My Charger**.



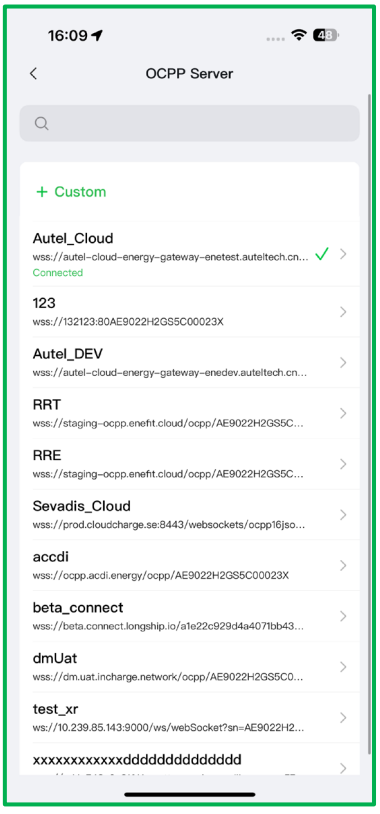
2. Select the charging station as required.

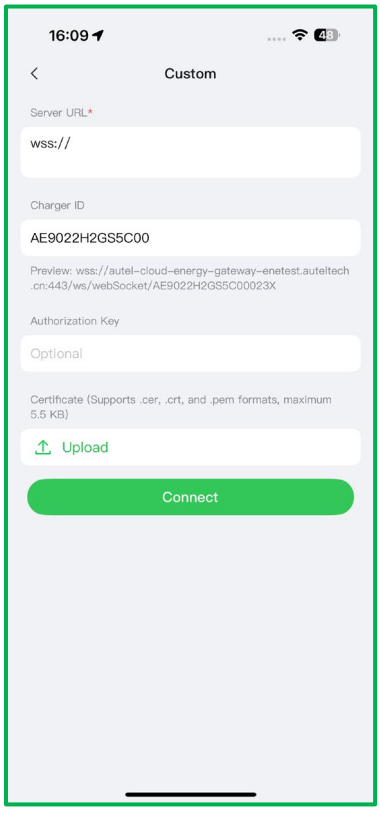


3. Tap **OCPP Server** to proceed.



4. Select the OCPP Server you need. Or custom the OCPP Server as required.





7 Troubleshooting

Item	Problems	Solutions
1	The charging station is successfully added, but the Bluetooth connection fails.	Check whether the QR code on the charging station is consistent with the QR code on the *Quick Reference Guide*. If so, make sure the Bluetooth is enabled on your mobile device; if not, contact customer support.
2	The charge session does not start as scheduled.	Do not insert the connector into your EV charging port before setting up a charging schedule for the first time. Insert the EV charging cable after the schedule is set up.
3	Over-voltage	Use the multimeter to check whether the voltage on the power input is too high. If the result is greater than or equal to 115 % of the rated voltage (264 V), contact local power grid company.
4	Under-voltage	Use the multimeter to check whether the voltage on the power input is not sufficient. If the result is less than or equal to 70 % of the rated voltage (161 V), contact local power grid company.
5	Ground fault	Ensure the charging station is grounded correctly.
6	Power failure	Ensure the switch to the circuit breaker is on.
7	Over-heating	➢ Check whether the EV charging cable is securely connected. ➢ Ensure the operating temperature is within the specified range on the product label. ➢ Stop charging. Restart charging until it is within the operation temperature range.
8	Residual current detected	Unplug the vehicle and plug in again. If the problem persists, contact customer support.
9	Bluetooth communication failure	➢ Ensure the Bluetooth is enabled on your mobile device and the charging station is powered on and operating properly. ➢ Forget the charging station in the Bluetooth settings on your mobile device and pair the charging station to your device via Bluetooth again. ➢ If the problem persists, contact customer support.

10	Update failure via Bluetooth	➢ Make sure the charging station is in idle status. ➢ Make sure the Bluetooth connection is working properly. ➢ If the problem persists, contact customer support.
11	Internet connection failure	➢ Try to connect another device to the same Internet, verifying the Internet connection is working properly. ➢ If the problem persists, contact customer support.

8 Compliance

The product is in conformity with the following standards and/or other normative documents:

EN 62311:2008

EN IEC 62311:2020

EN IEC 61851-1:2019

IEC 61851-1:2017

EN 301 489-1 V2.2.3:2019

EN 301 489-3 V2.3.2:2023

EN 301 489-17 V3.3.1:2024

EN 301 489-52 V1.3.1:2024

EN IEC 61851-21-2:2021

EN 50470-1:2006

EN 50470-3:2006

EN 300 328 V2.2.2:2019

EN 300 330 V2.1.1:2017

EN 301 908-1 V15.2.1:2023

EN 301 908 -13 V13.2.1:2022

EN 301 511 V12.5.1:2017

EN 301 489-19 V2.2.1:2022

EN 300 220-2 V3.1.1:2017

EN 303 413 V1.2.1:2021

EN 300 440 V2.1.1:2017

EN 300 440 V2.2.1:2018

EN 301 893 V2.1.1:2017

NOTICE

This equipment has been tested and found to comply with the limits for an EN 300 440 v2.1.1 receiver Category 3. These limits are designed to provide reasonable protection against harmful interference in a residential installation. When placed in the vicinity of other device(s) radiating in the 2.4 GHz ISM band this device will inadvertency trigger on. Please take appropriate measure to mitigate this eventuality.

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