

# **MaxiCharger AC/AC Pro**

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## **Installation and Operation Manual**

Version 1.0

**UL Model**

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For technical assistance in all other markets, please contact your local selling agent.

# 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 charger.
- This charger should only be installed by a licensed electrician in accordance with all local codes and ordinances.
- This charger must be grounded through a permanent wiring system or an equipment-grounding conductor.
- Do not install or use this charger near flammable, explosive, harsh, or combustible materials, chemicals or vapors.
- Children should be supervised when around this charger.
- Do not insert fingers or foreign objects into the electric vehicle connector.
- Do not use the charger if the flexible power cord or EV cable is frayed, broken, or damaged, or if it fails to operate.
- Do not use the charger 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 charger outside its operating range.
- Incorrect installation and testing of the charger could potentially damage the vehicle's battery, components, and/or the charger itself.
- Handle the charger 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.
- Neutral must be bonded to Ground upstream at the transformer or panel for each separately derived system.

Les messages de sécurité ci-après couvrent les situations dont Autel a connaissance. Autel ne peut pas connaître, évaluer ou vous conseiller sur tous les dangers possibles. Vous devez être certain que toute condition ou procédure de service rencontrée ne compromet pas votre sécurité personnelle.

- Lisez et suivez tous les avertissements et toutes les instructions avant d'installer et d'utiliser la borne de recharge.
- Cette borne de recharge ne doit être installée que par un électricien agréé, conformément à tous les codes et règlements locaux.

- Cette borne de recharge doit être mise à la terre par un système de câblage permanent ou un conducteur de mise à la terre de l'équipement.
- N'installez ni n'utilisez cette borne de recharge à proximité de matériaux, de produits chimiques ou de vapeurs inflammables, explosifs, agressifs ou combustibles.
- Les enfants doivent être surveillés lorsqu'ils se trouvent à proximité de cette borne de recharge.
- N'insérez pas vos doigts ou des objets étrangers dans le connecteur du véhicule électrique.
- N'utilisez pas la borne de recharge si le câble d'alimentation flexible ou le câble VE est effiloché, cassé ou autrement endommagé, ou s'il ne fonctionne pas.
- N'utilisez pas la borne de recharge si le boîtier ou le connecteur VE est effiloché, cassé ou autrement endommagé, ou s'il ne fonctionne pas.
- Utilisez des conducteurs en cuivre à 90°C ou consultez les réglementations locales.
- Ne faites pas fonctionner la borne de recharge en dehors de sa plage de fonctionnement.
- Une installation et un test incorrects de la borne de recharge peuvent potentiellement endommager la batterie du véhicule, ses composants et/ou la borne de recharge elle-même.
- Manipulez la borne de recharge avec précaution pendant le transport. Ne la soumettez pas à une force ou à un choc important, ne la tirez pas, ne la tordez pas, ne l'emmêlez pas, ne la traînez pas et ne marchez pas dessus, afin d'éviter de l'endommager ou d'endommager l'un de ses composants.
- Le neutre doit être relié à la terre en amont du transformateur ou du tableau pour chaque système dérivé séparément.

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# 1 Using This Manual

This manual describes the installation and use of the MaxiCharger AC and AC Pro. Prior to installation, read through this manual to get familiar with the instructions of this charger to ensure a successful installation and smooth operations.



## **NOTICE**

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

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## **NOTE**

Les illustrations utilisées dans le présent manuel n'est donné qu'à titre d'exemple; les produits ou écrans réels peuvent être différents.

---

## 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.

---



### **DANGER**

Indique une situation dangereuse imminente avec un niveau de risque élevé qui, si le danger n'est pas évité, causera la mort ou des blessures graves.

---



### **WARNING**

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

---



### **AVERTISSEMENT**

Indique une situation potentiellement dangereuse avec un niveau de risque modéré qui, si l'avertissement n'est pas respecté, peut causer la mort ou des blessures graves.

---

**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.

---

**ATTENTION**

Indique une situation potentiellement dangereuse avec un niveau de risque moyen qui, si la prudence n'est pas respectée, peut entraîner des blessures mineures ou modérées ou des dommages à l'équipement.

---

**NOTICE**

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

---

**NOTE**

Fournit des informations utiles telles que des instructions supplémentaires, des conseils et des commentaires.

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## 1.2 Revision History

| Version     | Date    | Descriptions    |
|-------------|---------|-----------------|
| Version 1.0 | 2024.12 | Initial version |

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## 2 General Introduction

This charger 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 charger.

### Intended Use

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



#### **DANGER**

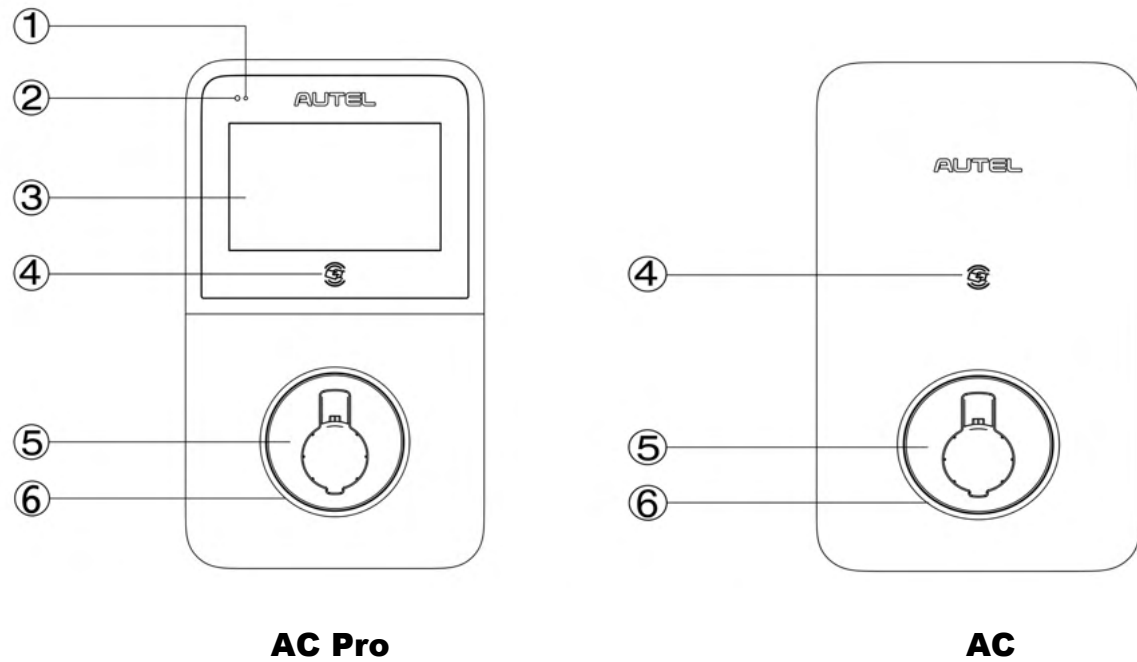
- If you use the charger in any way other than described in this manual or other related documents, possible death, injury and damage to property can occur.
  - Use the charger only as intended.
- 



#### **DANGER**

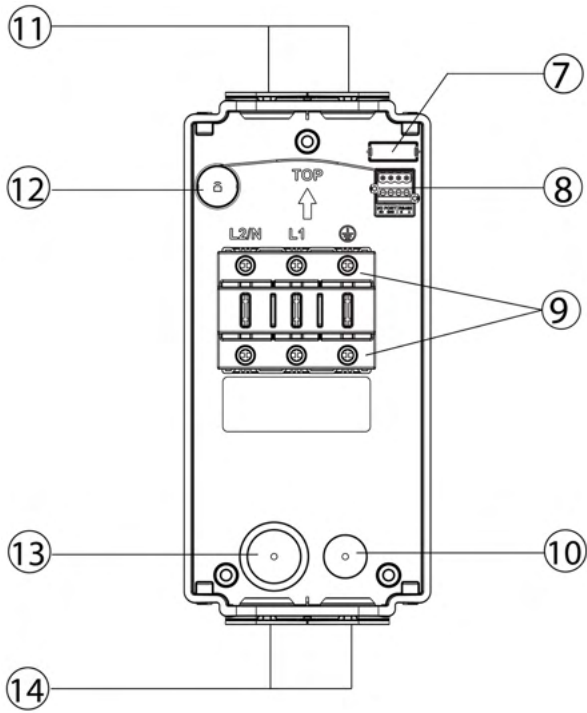
- Si vous utilisez le chargeur d'une manière autre que celle décrite dans ce manuel ou dans d'autres documents connexes, des risques de mort, de blessures et de dommages matériels peuvent survenir.
  - Utilisez le chargeur uniquement comme prévu.
-

## 2.1 Product Overview

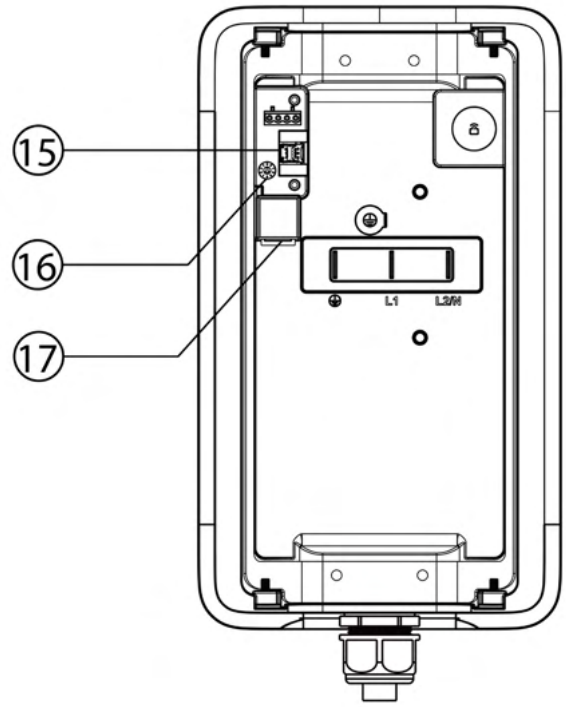


### Front View

1. Energy Pulse Output (Infrared Ray)
2. Ambient Light Sensor – Detects ambient brightness
3. Touchscreen
4. RFID Reader
5. Holster
6. LED Indicator



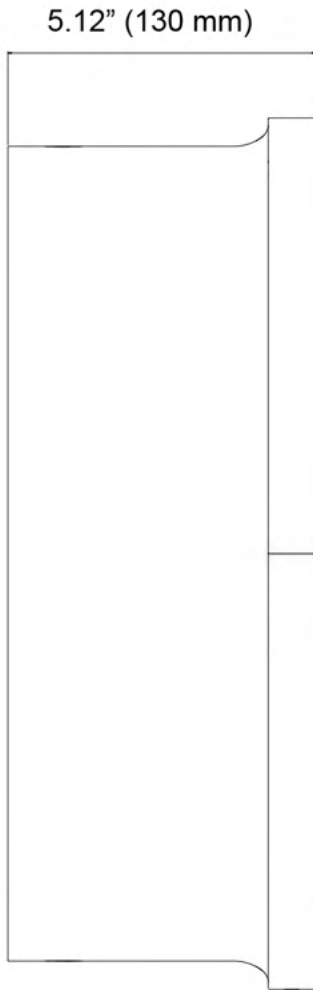
**Wire Box**



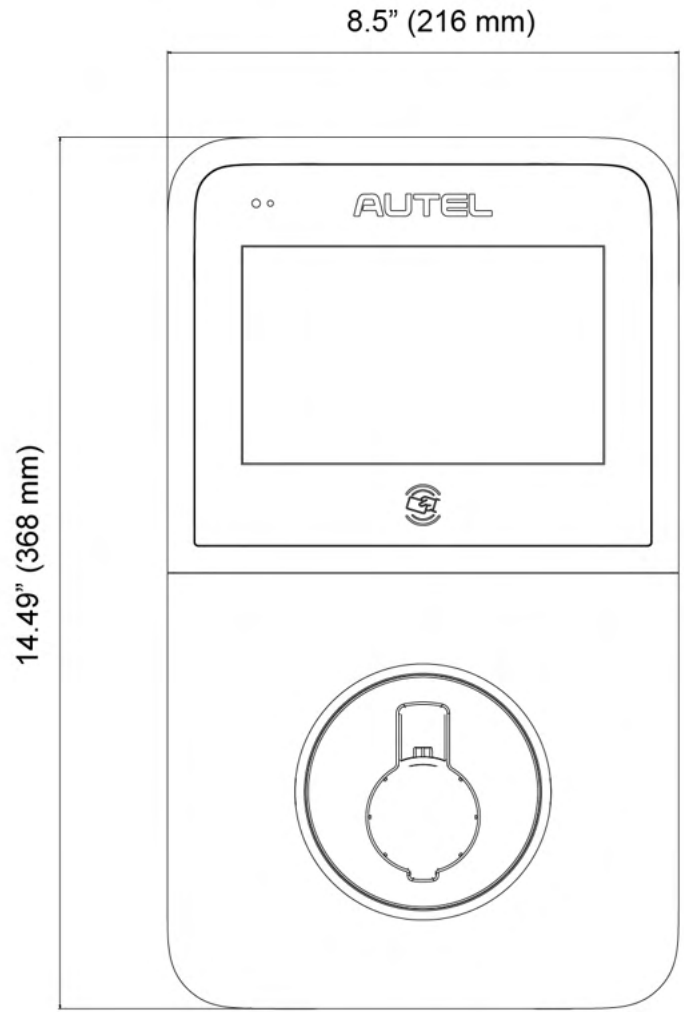
**Charger Rear View**

- 7. Built-in Spirit Level
- 8. RS485 & IO Terminal
- 9. AC Input Terminal Block
- 10. Rear Data Cable Entry
- 11. Top Entries
- 12. RFID (Radio Frequency Identification) Tag
- 13. Rear Power Cable Entry
- 14. Bottom Entries
- 15. SIM Card Socket (SIM card: optional)
- 16. Current Selector
- 17. Ethernet Port

## 2.2 Product Dimensions



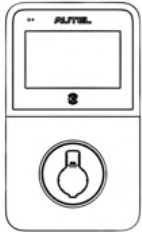
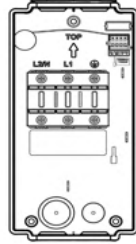








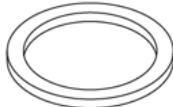
Side View






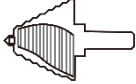




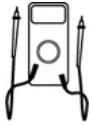


Front View

## 2.3 In the Box

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

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| <p><b>Charger</b><br/>1 PC</p>  |    | <p><b>Wire Box</b><br/>1 PC</p>                                   |    | <p><b>Self-tapping Screw</b><br/>M1/5" (5 mm) x<br/>1<sup>3</sup>/<sub>5</sub>" (40 mm)<br/>3 PCS</p> |   |
| <p><b>Wall Anchor</b><br/>M5/16" (8 mm) x<br/>1<sup>3</sup>/<sub>5</sub>" (40 mm)<br/>3 PCS</p> |    | <p><b>Screw</b><br/>M1/5" (5 mm) x<br/>2/5" (10 mm)<br/>4 PCS</p> |    | <p><b>Screw Plug</b><br/>4 PCS</p>  |   |
| <p><b>Quick Reference Guide</b><br/>1 PC</p>  |   | <p><b>Packing List</b><br/>1 PC</p>                               |   | <p><b>T25 Torx Screwdriver</b><br/>1 PC</p>   |  |
| <p><b>Zip Tie</b><br/>1 PC</p>  |  | <p><b>Sealing Ring</b><br/>2 PCS</p>                              |  |   |  |

## 2.4 Recommended Tools

|                                   |   |   |  |
|-----------------------------------|---|---|--|
| Tape Measure                      |    | Pencil  |   |
| Wire Stripper                     |    | Step Bit<br>1 <sup>3</sup> / <sub>8</sub> " (35 mm) |   |
| Power Drill                       |    | Drill Bit<br>5/16" (8 mm)                           |   |
| Torque Driver<br>35 lbf-in (4 Nm) |    | Phillips Bit PH2                                    |   |
| Multimeter                        |   | Conduit Fitting<br>1" (25.4 mm)                     |  |
| Flathead Screwdriver              |  |   |  |



### NOTICE

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



### NOTE

Les outils mentionnés ci-dessus ne sont pas inclus dans l'emballage. Assurez-vous qu'ils sont disponibles avant.

# 3 Installation

## 3.1 Electrical Design

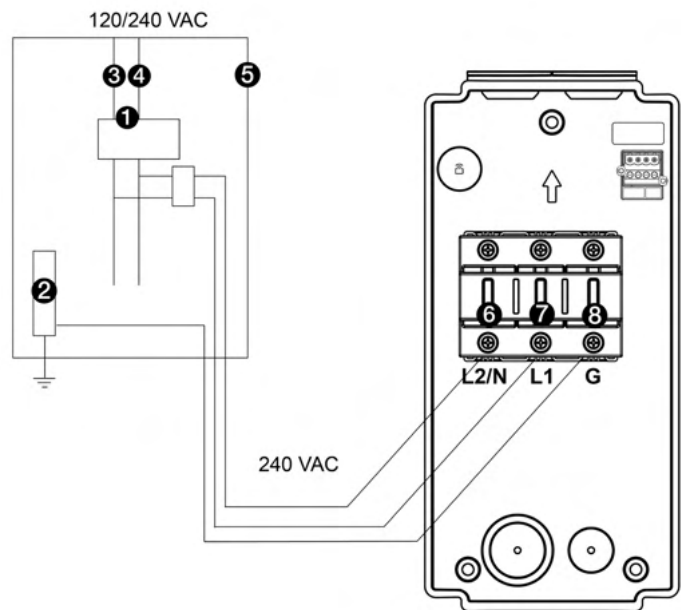
### 3.1.1 Upstream Wiring

Chargers are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that for a maximum 80 A load at 208/240 V output to an electric vehicle, 100 A breaker is required.

Wiring must be sized in accordance with NEC requirements for continuous load devices. Typically, 3 AWG (26.67 mm<sup>2</sup>) insulated electrical wire is used, depending upon the rating of the circuit and the distance between the electrical panel and the charger. The AC input terminal block accepts a maximum of 2 AWG (33.63 mm<sup>2</sup>).

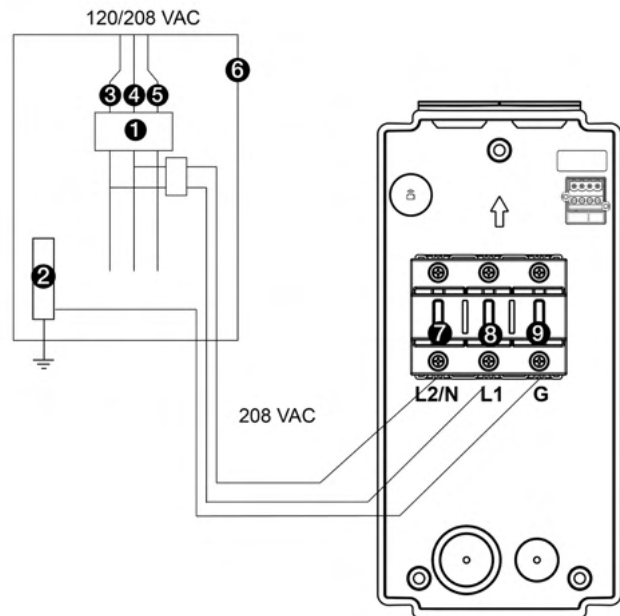
#### 240 VAC Panel

1. Main Breaker
2. PE Bus
3. L1
4. L2
5. Local Service or Sub Panel
6. L2/N
7. L1
8. Ground/PE



## 208 VAC Panel

1. Main Breaker
2. PE Bus
3. L1
4. L2
5. L3
6. Local Service or Sub Panel
7. L2/N
8. L1
9. Ground/PE



### 3.1.2 Grounding Requirements

The charger 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 charger.

A grounding conductor, compliant with applicable codes, must be grounded at the service equipment or, when supplied by a separate system, at the supply transformer.

Neutral is not used to power the charger but must be properly connected to ground, at the panel transformer, to provide necessary voltage reference relative to ground.

## 3.2 Preparing for Installation

### 3.2.1 Installation Requirements

- Install the charger on a flat and vertical surface capable of supporting its weight (e.g., a finished wall or pedestal). The maximum weight of the charger is approximately 20.7 lbs. (9.4 kg).
- Install the charger in a location that allows the charging cable to remain within its bending tolerance.
- Position the charger in a location where it is not vulnerable to being damaged.
- Ensure the electrical panel supports a 240 V dedicated circuit with a new, dedicated, and non-GFCI two-pole circuit breaker, in accordance with local codes and ordinances.
- The recommended installation height for the charger is between 33.5 and 45.3 inches (850 to 1150 mm). The minimum outdoor installation height is 24 inches (600 mm) and that of indoor is 18 inches (450 mm). For ADA accessibility, mount the charger at a height of 27.6 – 33.5 inches (700 – 850 mm).



#### CAUTION

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

---



#### ATTENTION

Un disjoncteur supplémentaire de protection contre les surtensions doit être installé sur le panneau de service si la zone d'installation connaît des orages fréquents.

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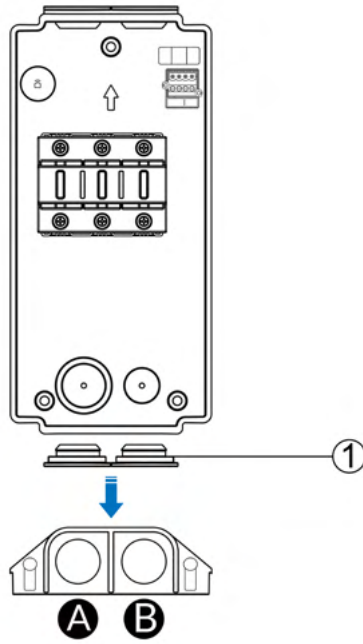
### 3.2.2 Cable Entry Options

The recommended cable entry options are described below. The preparation work varies depending on the entry options.

|                           |  |
|---------------------------|--|
| <b>Cable Entry Option</b> | <b>A: Power Cable</b><br>(Line/neutral: 3 AWG (26.67 mm <sup>2</sup> ) for 80A current chargers and 6 AWG (13.3 mm <sup>2</sup> ) for 50A current chargers; PE: minimum 8 AWG (8.37 mm <sup>2</sup> ). Copper wire only.)<br><b>B: Data Cable</b> (Ethernet and RS485 cable) |
|---------------------------|--|

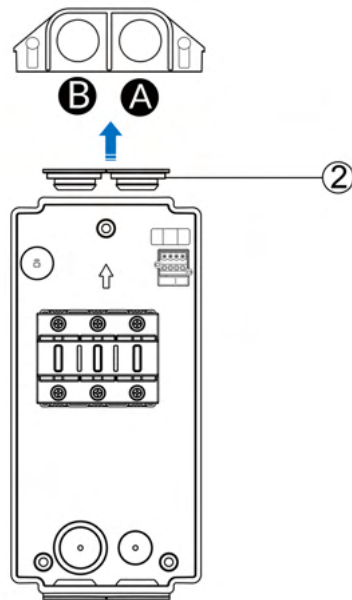
**Bottom Entry:**

Manually remove the plugs (1) from the bottom of the wire box.



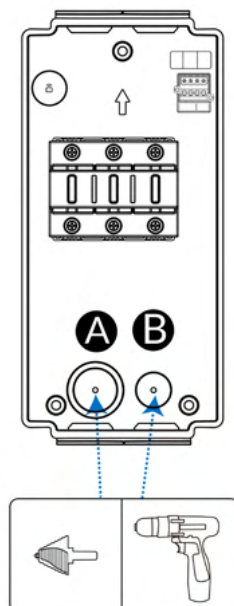
**Top Entry:**

Manually remove the plugs (2) from the top of the wire box.



**Rear Entry:**

Use a power drill with the 1<sup>3</sup>/<sub>8</sub>" (35 mm) step bit to drill into the rear cable entries.



### 3.3 Installing the Charger



#### **DANGER**

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

---



#### **DANGER**

Risque de choc électrique. Coupez l'alimentation de la prise au niveau du disjoncteur jusqu'à ce que l'installation soit terminée.

---



#### **NOTICE**

It is suggested that the configuration be finished on the Autel Operation and Maintenance Platform before the installer installs the chargers. Refer to [4.2.1](#) for more details.

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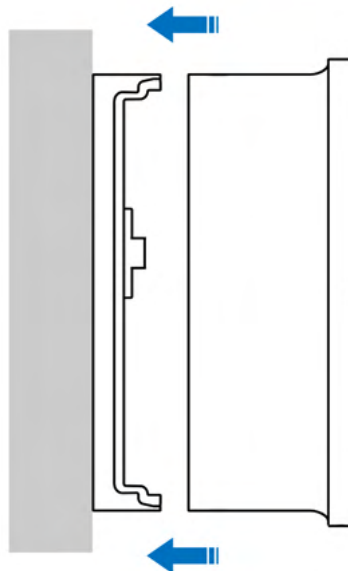
#### **NOTE**

Il est recommandé de terminer la configuration sur la plate-forme d'exploitation et de maintenance Autel avant que l'installateur n'installe les bornes de recharge. Pour plus de détails, voir le point [4.2.1](#).

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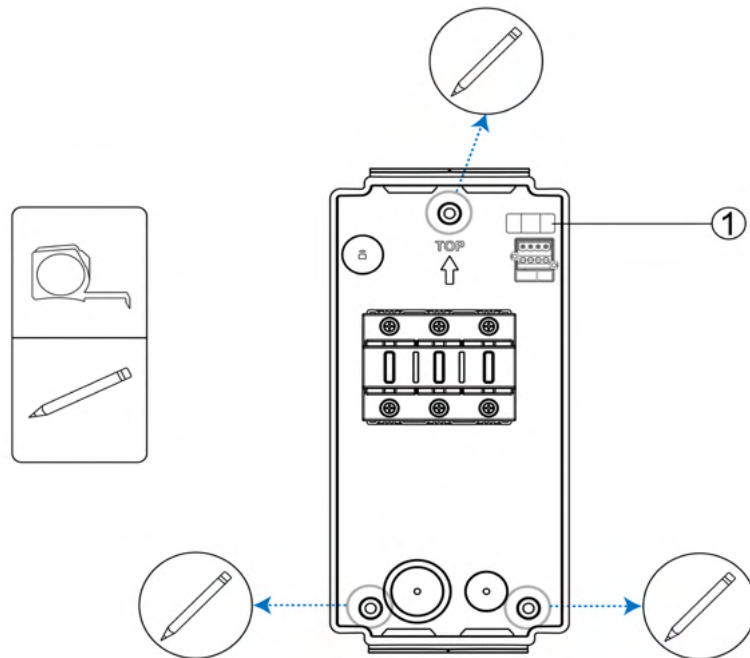
#### **STEP 1**

Manually detach the wire box (1) from the main unit (2).



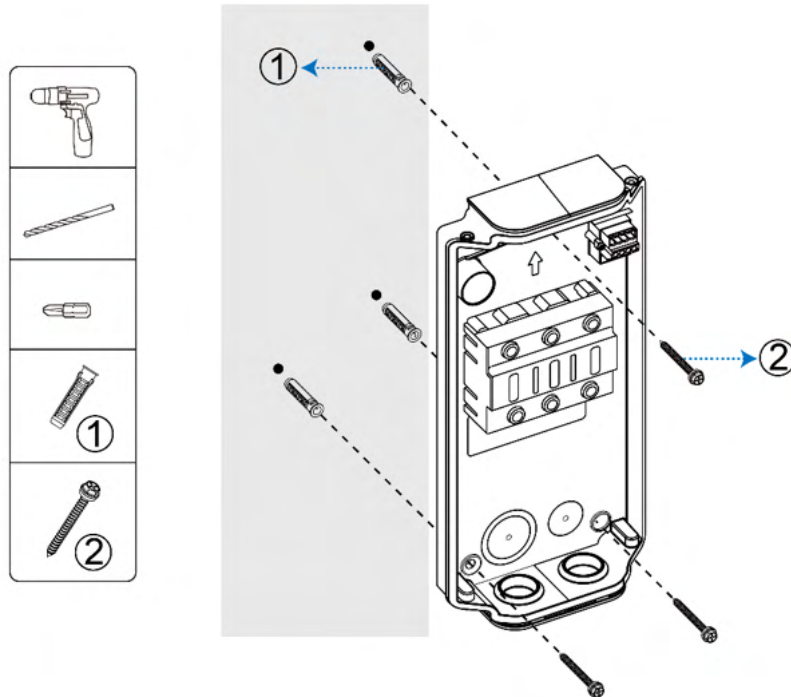
## STEP 2

1. Place the wire box against the wall at a height of 33.5 – 45.3 inches (850 – 1150 mm). Level it using the built-in spirit level **(1)**.
2. Mark the three mounting holes using a pencil and remove the wire box temporarily.



### STEP 3

1. Drill 2 inches (50 mm) into the three holes measuring 5/16 inch (8 mm) in diameter.
2. Tap the three wall anchors (1) into the holes.
3. Place the wire box against wall aligning with the three holes. Then insert and tighten the three M1/5" (5 mm) x 1<sup>3</sup>/<sub>5</sub>" (40 mm) self-tapping screws using a power drill with the Phillips bit (PH2) to secure the wire box.



## 3.4 Cable Connection



### CAUTION

For the power cable, use copper conductors with the wire size being 3 AWG (26.67 mm<sup>2</sup>).



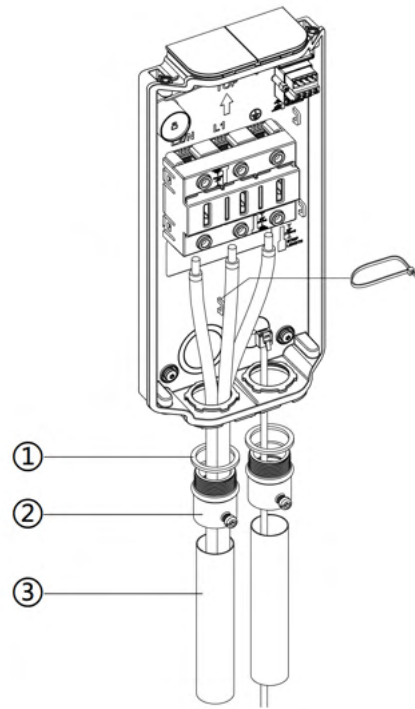
### ATTENTION

Pour le câble d'alimentation, utilisez des conducteurs en cuivre de calibre 3 AWG (26.67 mm<sup>2</sup>).

Prepare the conduits and conduit fittings (1-inch recommended) and route them into the charger according to the cable entries.

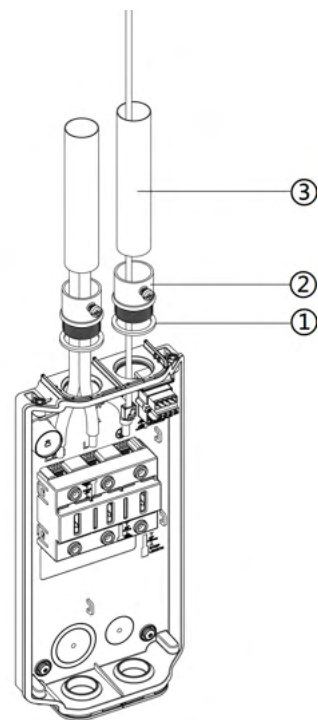
**Bottom entry:**

Route the cable through the conduit (3), the conduit fitting (2), and the sealing ring (1) into the charger from the bottom.



**Top entry:**

Route the cable through the conduit (3), the conduit fitting (2), and the sealing ring (1) into the charger from the top.



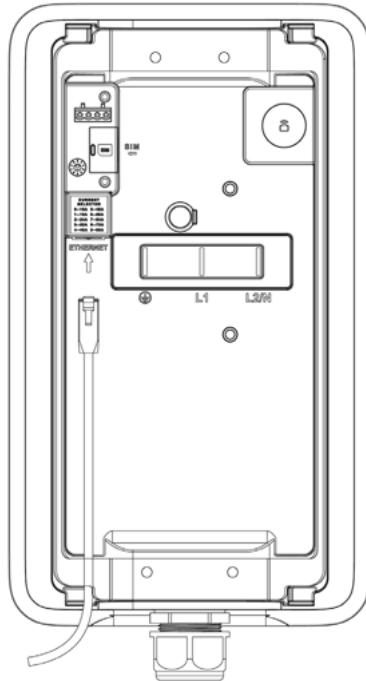


## 3.4.2 Internet Connection

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

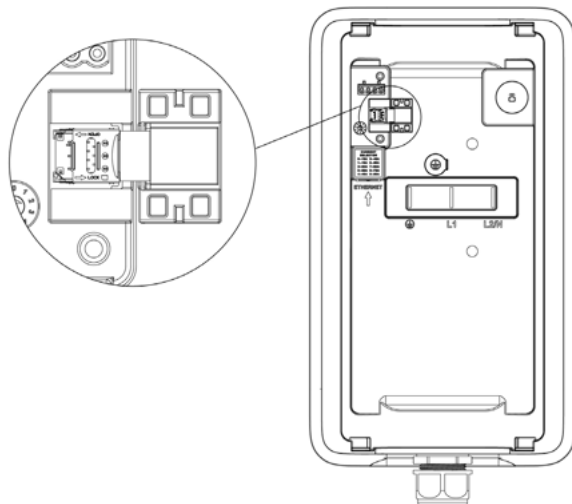
### Ethernet Connection

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

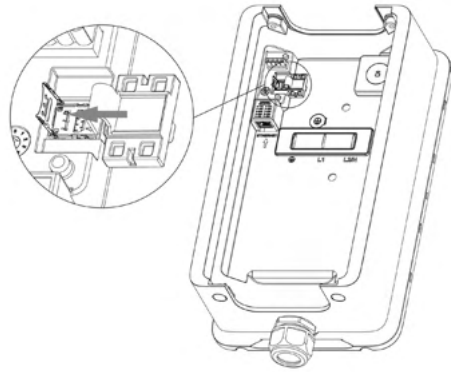


### Cellular Network Connection

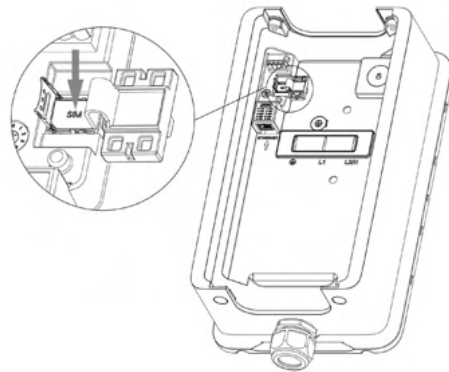
1. Open the rubber plug above the SIM card tray.



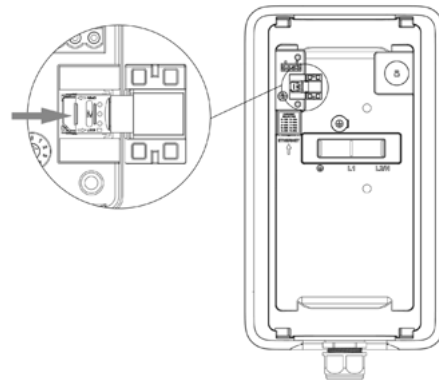
2. Push the cover to the left to unlock the card tray.



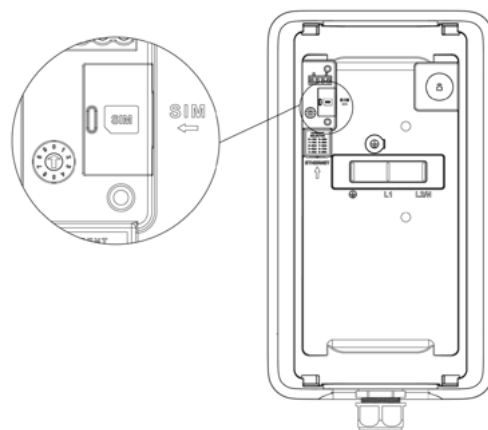
3. Insert the SIM card.



4. Push the cover back to the right to lock the card tray.

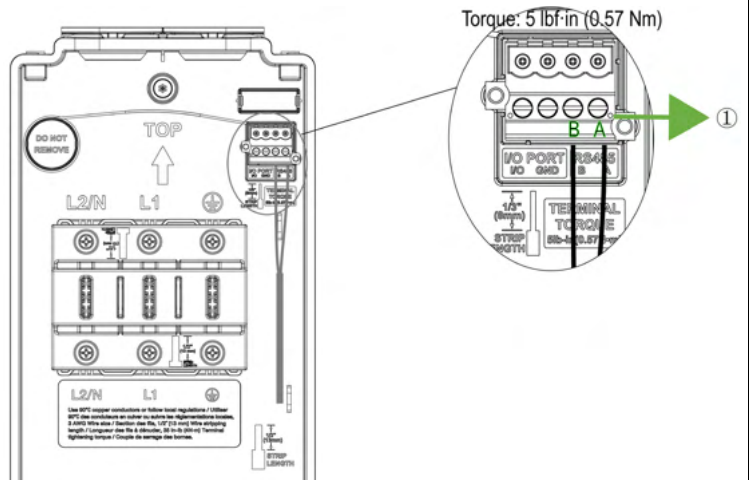


5. Close the rubber plug.



### 3.4.3 RS485 Cable Connection (Optional)

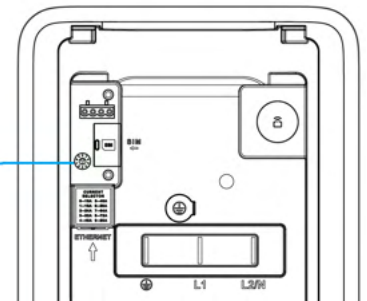
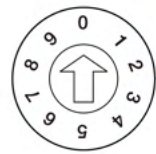
1. Use a flathead screwdriver to press and hold the buttons (1) above the connector holes on the RS485 terminal block.
2. Strip the RS485a and RS485b cables to 1/3" (8 mm) and push them into the holes as indicated. Release the buttons and then secure the cables by tightening the screws to 5 lbf·in (0.57 Nm) using a flathead screwdriver with the tip size being 1/8" (3 mm) x 1/40" (0.6 mm).



### 3.5 Adjusting the Rated Current (Optional)

This charger allows you to manually set a lower maximum current using the built-in current selector when installing the charger on a circuit rated lower than the maximum rating for the charger.

Locate the current selector on the back of the main unit. Then use a flathead screwdriver with the tip size being 1/8" (3 mm) x 1/40" (0.6 mm) to set the DIP switch to the appropriate position per the table below.



#### CAUTION

To reduce the risk of fire, only connect the charger to a circuit with a branch circuit over-current protection of 125% of the selected maximum amperage setting of the device in accordance with ANSI/NFPA 70 (US) CSA C22.1 (Canada).



#### ATTENTION

Pour réduire le risque d'incendie, ne branchez la borne de recharge que sur un circuit doté d'une protection contre les surintensités de 125 % de l'intensité maximale sélectionnée pour l'appareil, conformément à la norme ANSI/NFPA 70 (États-Unis) et à la norme CSA C22.1 (Canada).

| Position | Amperage (A) | Circuit Breaker Rating (A) |
|----------|--------------|----------------------------|
| 0        | 16           | 20                         |
| 1        | 16           | 20                         |
| 2        | 24           | 30                         |
| 3        | 32           | 40                         |
| 4        | 40           | 50                         |
| 5        | 48           | 60                         |
| 6        | 50           | 70                         |
| 7        | 64           | 80                         |
| 8        | 72           | 90                         |
| 9        | 80           | 100                        |

---

### NOTICE



- The information mentioned in the table above can also be viewed below the current selector on the charger.
  - When the DIP switch is at 0, the corresponding amperage is 16A.
  - The maximum current is limited by the power rating of a charger. For this model, the maximum current is 80A.
- 

### NOTE

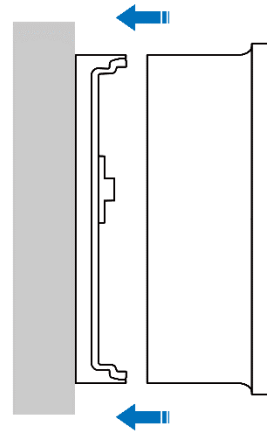


- Les informations mentionnées dans le tableau ci-dessus peuvent également être consultées sous le sélecteur de courant de la borne de recharge.
  - Lorsque le commutateur DIP est à 0, l'ampérage correspondant est de 16A.
  - Le courant maximal est limité par la puissance nominale de la borne de recharge. Pour ce modèle, le courant maximum est de 80A.
-

## 3.6 Finishing Installation

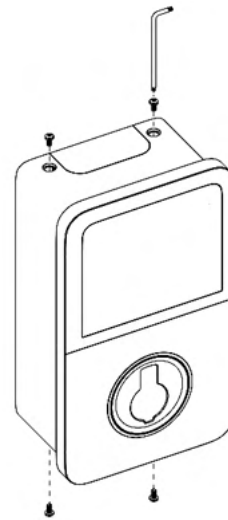
### STEP 1

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



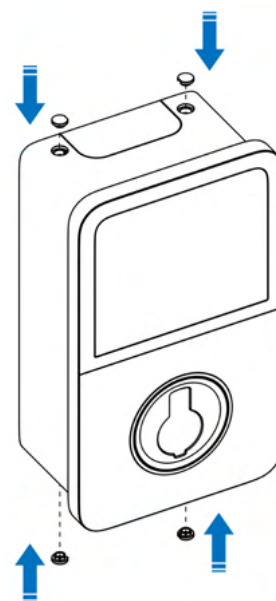
### STEP 2

Install and tighten the four M1/5" (5 mm) x 2/5" (10 mm) screws using the T25 Torx screwdriver to secure the charger.



### STEP 3

Install the four screw plugs. Ensure the contact pins fit the contacts in the main unit.



The installation is now completed.

# 4 Operation

## 4.1 Powering On

Once 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 charger works correctly and safely.



### **WARNING**

Be careful when working with electricity.

---



### **AVERTISSEMENT**

Soyez prudent lorsque vous travaillez avec de l'électricité.

---

## 4.2 One-stop Commissioning (For Commercial Use)

The commissioning of the chargers will be completed by the owner or the site operator, the installer and the commissioning personnel. The steps are as follows.

- The owner or the site operator adds the devices, creates the site, configures the devices and designates the installation ticket on the Autel Operation and Maintenance Platform.
- The installer installs the chargers and checks the installation.
- The commissioning personnel synchronizes the configuration to the chargers.



### **NOTICE**

- The installer and the commissioning personnel can be the same person.
  - The screenshots in this section take the case of the MaxiCharger AC Pro as an example.
- 

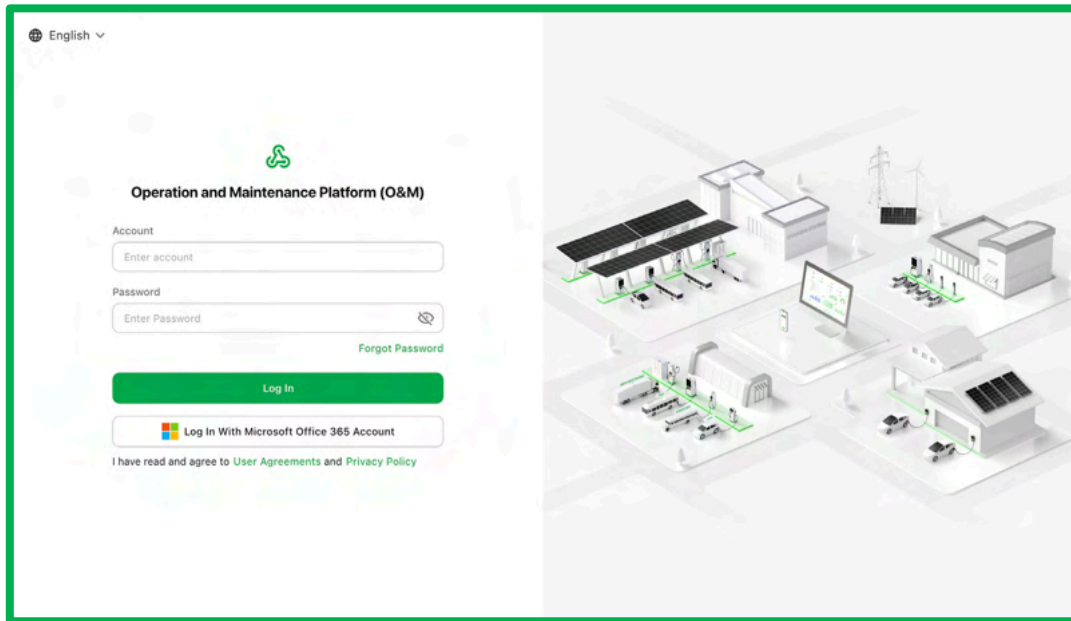


### **NOTE**

- Le personnel de mise en service et l'installateur peuvent être la même personne.
  - Les captures d'écran de cette section prennent le cas du MaxiCharger AC Pro comme exemple.
-

## 4.2.1 Configuration

1. Log in to the Autel Operation and Maintenance Platform by inputting the account and the password. The URL of the platform is <https://omcb-us.autel.com/>.



**4-1 Log-in Screen**



### **NOTE**

Autel will assign an account to the customers whose purchase order can be checked in our system and send them an email where there is a link for them to set the password for their account. If you have any questions, contact Autel technical support or your local selling agent.

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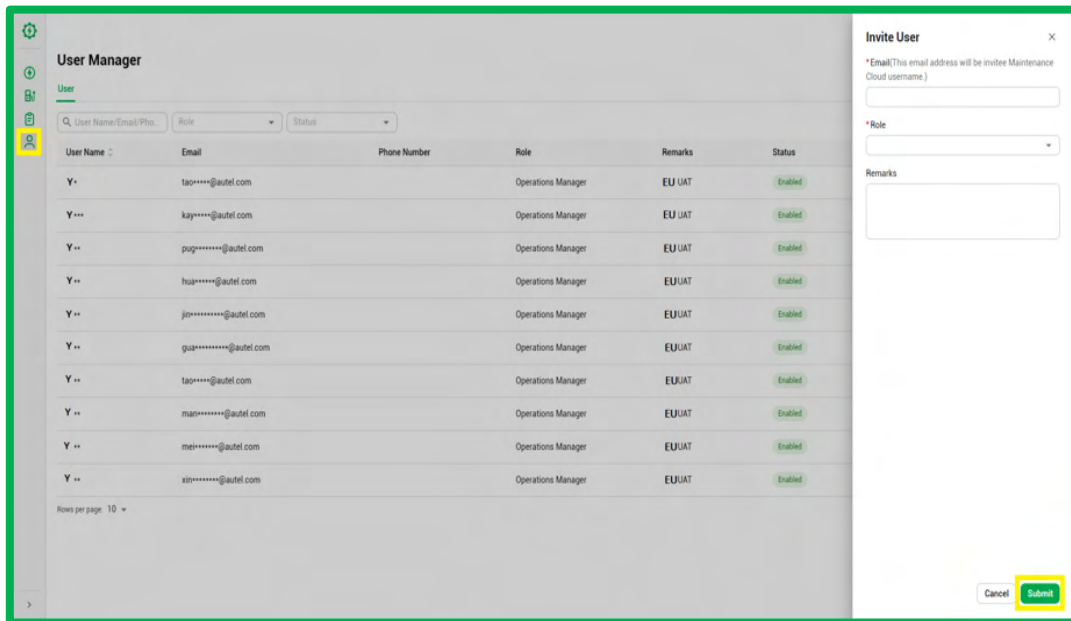


### **NOTE**

Autel attribuera un compte aux clients dont le bon de commande peut être vérifié dans notre système et leur enverra un email contenant un lien leur permettant de définir le mot de passe de leur compte. Si vous avez des questions, contactez l'assistance technique d'Autel ou votre agent de vente local.

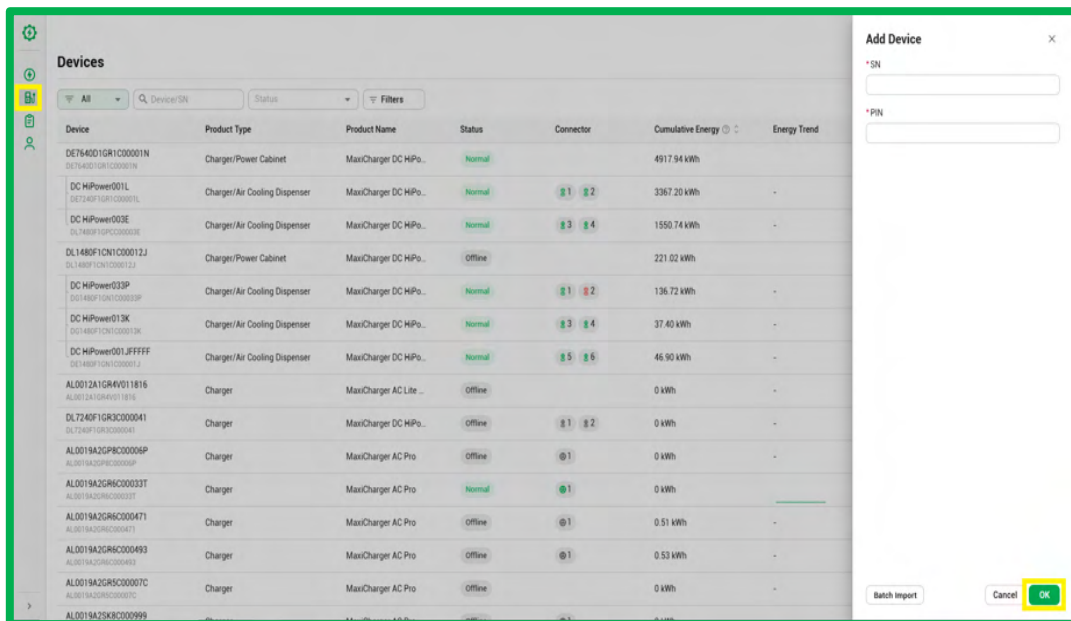
---

- Input the email of users that you want to invite and set their roles on the **User Manager** screen.



**4-2 User Manager Screen**

- Input the SN (serial number) and PIN of the devices that need to be configured on the **Devices** screen to add them to the platform. The SN can be found on the nameplate and the PIN can be found on the *Quick Reference Guide*.



**4-3 Devices Screen**

4. Input a name for the site, select the region for it, and leave your name and email or phone number on the **Sites** screen to create a site. Then click on **Enter Site Creation Guide** to proceed.



**4-4 Sites Screen**

---

### NOTICE



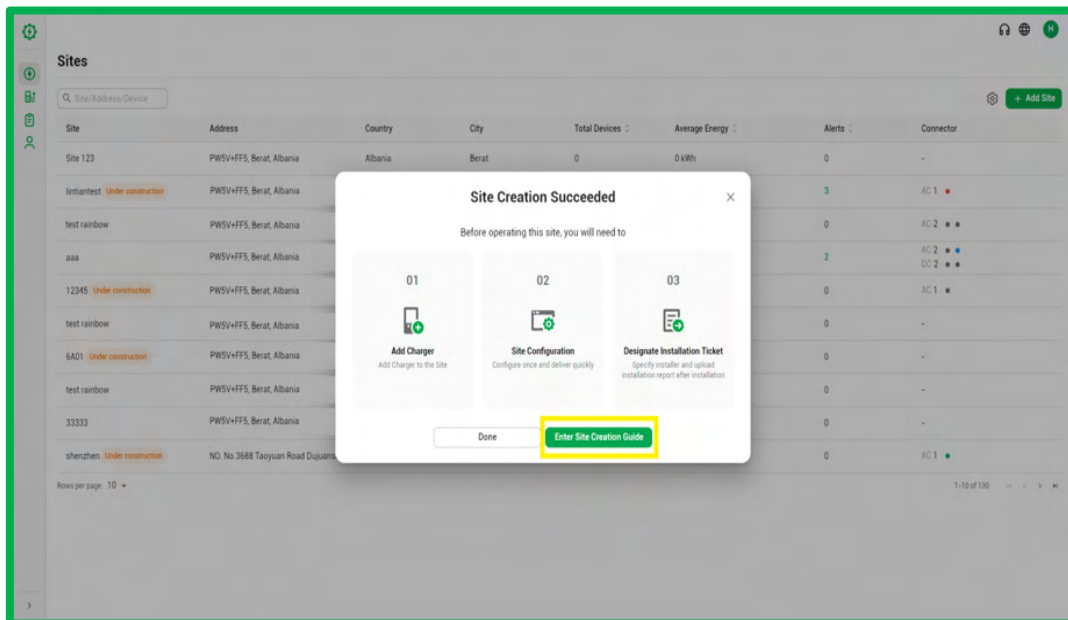
- You can choose to enter your phone number or email.
- If you choose to enter your email, you will receive notifications concerning the status of the installation ticket (confirmed or cancelled) and the installation work (started or completed).

---

### NOTE

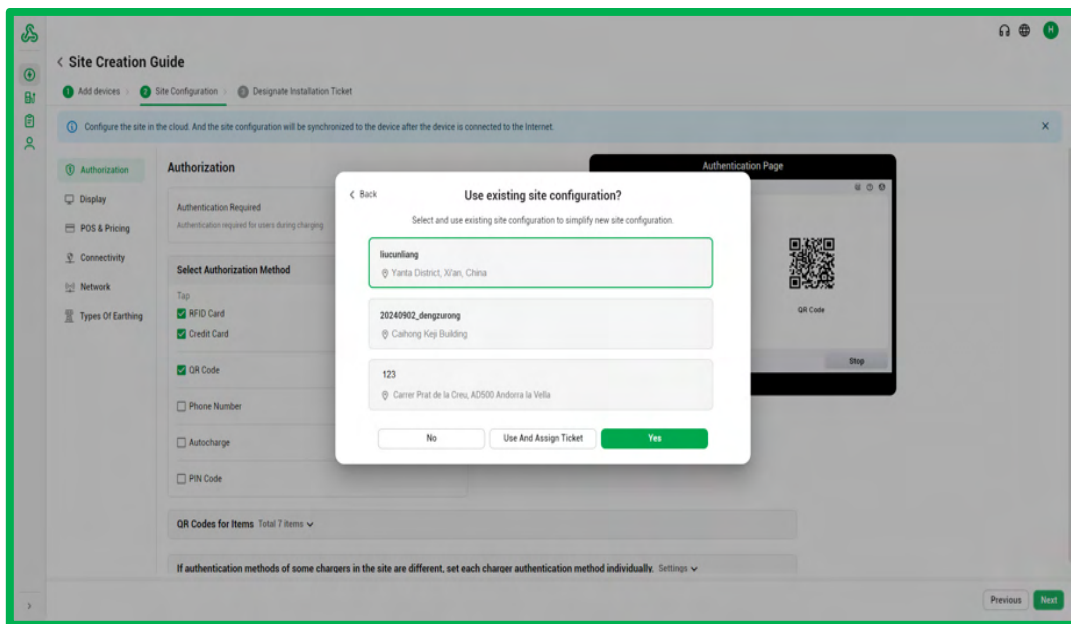


- Vous pouvez choisir de saisir votre numéro de téléphone ou votre adresse email.
- Si vous choisissez de saisir votre adresse email, vous recevrez des notifications concernant le statut du ticket d'installation (confirmé ou annulé) et les travaux d'installation (commencés ou terminés).



**4-5 Site Creation Screen**

5. After entering the **Site Creation Guide** screen, add devices by selecting the SN of the devices that you need to configure. Also, conduct site configuration. For this, choose whether to use the existing site configuration or not. If you use the existing configuration, you can designate the ticket directly. If you don't, make such configurations as authorization, display, POS & Pricing, connectivity and Network for the devices.



**4-6 Site Creation Succeeded Screen**



**NOTICE**

The display configuration is only available to the MaxiCharger AC Pro.



**NOTE**

La configuration de l'affichage n'est disponible que pour le MaxiCharger AC Pro.

6. Select installation time and installation technician for **Installation Process** and on-site time and installation technician for **Configuration Activation**. The technicians that can be selected are users invited before.

The screenshot displays the 'Site Creation Guide' interface. At the top, there are three progress indicators: 'Add devices', 'Site Configuration', and 'Designate Installation Ticket(Optional)'. Below this, a notification banner states: 'Assign installation tickets to installers, so they can complete the installation as instructed on the tickets.' The main content area is divided into two sections: 'Installation Process' and 'Configuration Activation'. Each section has a toggle switch (currently turned on) and a form with fields for 'Installation Time' (or 'On-site time') and 'Assign Installation Technician'. The 'Installation Process' section shows a date range from 2024-10-17 to 2024-10-18 and 'MZC Test' as the technician. The 'Configuration Activation' section shows the same date range and 'MZC Test' as the technician. To the right, an 'Installation Ticket Progress Notification' panel shows the contact 'Leshna' with email 'lesma@autel.com' and an 'Add Notification Object' button. At the bottom right, there are 'Skip & Save' and 'Save And Create Ticket' buttons, with the latter highlighted in yellow.

#### 4-7 Designating Installation Ticket



#### NOTICE

**Installation Process** and **Configuration Activation** can be assigned to the same technician or two different technicians. If the two tasks are assigned to two different people, both of them should download and log in to the Autel Config app to complete their task separately.



#### NOTE

**Le Processus d'installation** et **l'Activation de la configuration** peuvent être confiés au même technicien ou à deux techniciens différents. Si les deux tâches sont confiées à deux personnes différentes, elles doivent toutes deux télécharger l'application Autel Config et s'y connecter pour effectuer leur tâche séparément.

## 4.2.2 Commissioning

---

### NOTICE



To commission the devices, the installer and the commissioning personnel need to log in to the Autel Config app. The account for the installer and the commissioning personnel is the email address the owner or the site operator leaves when inviting them. The password can be set by them via the link in the email sent to them after being invited.

---

### NOTE



Pour mettre en service les appareils, l'installateur et le personnel de mise en service doivent se connecter à l'application Autel Config. Le compte de l'installateur et du personnel de mise en service est l'adresse email que le propriétaire ou l'opérateur du site a laissée lorsqu'il les a invités. Le mot de passe peut être défini par ces personnes via le lien figurant dans l'email qui leur est envoyé après l'invitation.

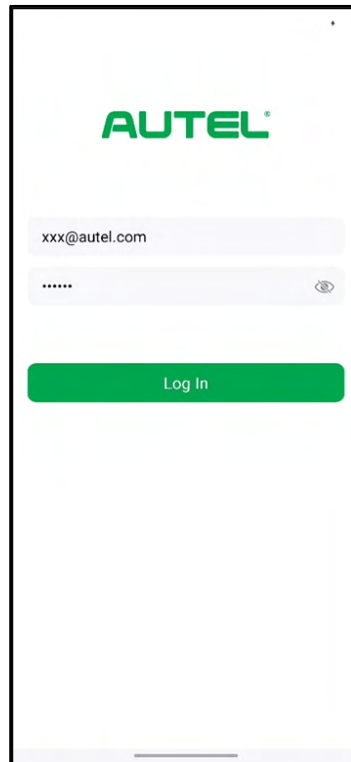
---

### 4.2.2.1 Installation Process

1. Scan the QR code below to download the Autel Config app to your mobile device from the Google Play or App Store.



2. Log in to the Autel Config app by inputting the account and password.



**4-8 Log-in Screen**



**NOTICE**

Make sure all devices and the Config app are running the latest software versions.

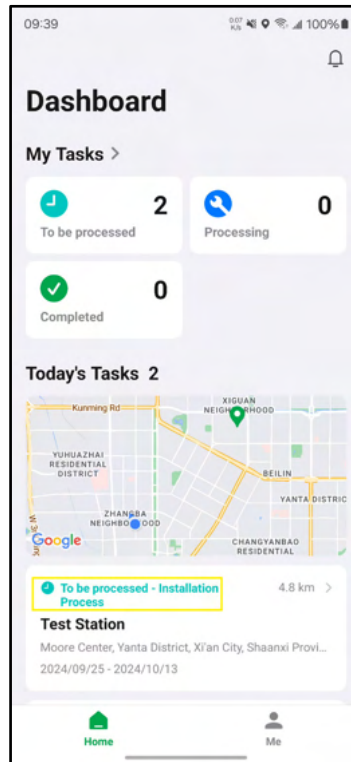


**NOTE**

Assurez-vous que tous les appareils et l'application Config fonctionnent avec les dernières versions logicielles.

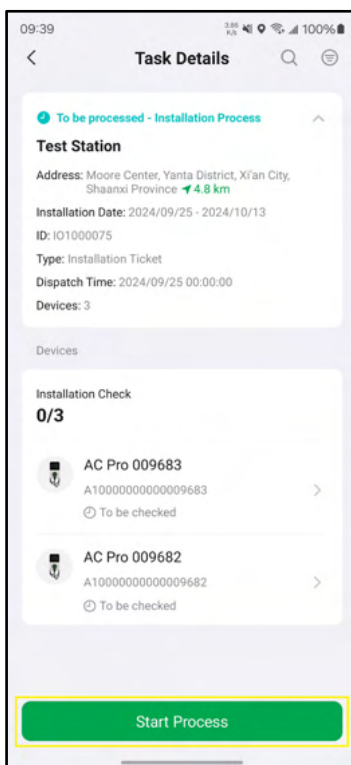
---

3. On the **Dashboard** screen, click on **Installation Process** to proceed.



**4-9 Dashboard Screen**

4. On the **Task Details** screen, click on **Start Process** to proceed.



**4-10 Task Details Screen**

---

### NOTICE



In this step, you can select one device and click on the > icon to the right of the serial number of the device to go to the **Installation Check** screen directly. In this case, you need to find the correct device in the site whose serial number is in line with that of the one you select.

---

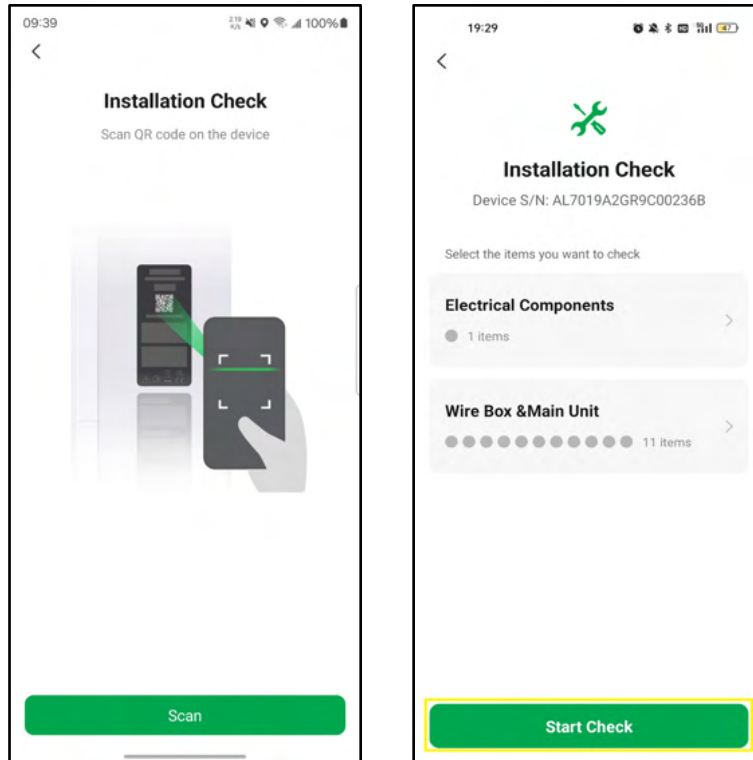
### NOTE



Au cours de cette étape, vous pouvez sélectionner un appareil et cliquer sur l'icône > à droite du numéro de série de l'appareil pour accéder directement à l'écran de Vérification de l'installation. Dans ce cas, vous devez trouver le bon appareil sur le site dont le numéro de série correspond à celui de l'appareil que vous avez sélectionné.

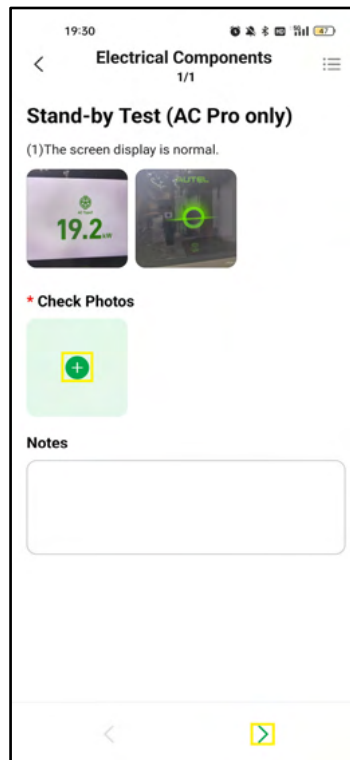
---

5. Scan the QR code on one device to enter the **Installation Check** screen. On the screen, you can see what needs to be checked. Click on **Start Check** to proceed.



#### ***4-11 Installation Check Screens***

6. On the **Electrical Components** screen, click on the + icon to upload photos of the screen display as shown on the screen to finish the check of the first item. Then click on the > icon on the lower right corner to proceed.



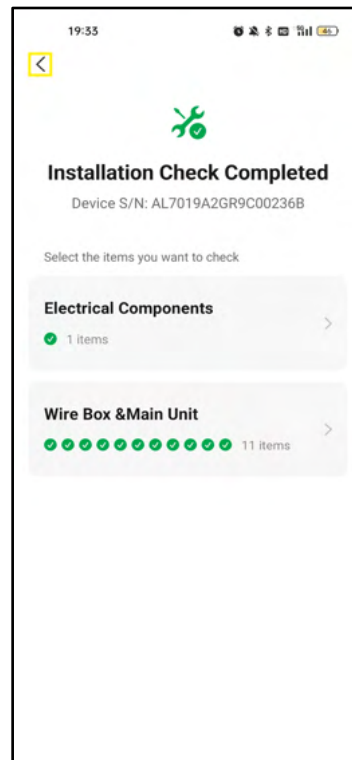
#### ***4-12 Electrical Components Screen***

- On the **Wire Box & Main Unit** screen, upload photos to finish checking the item shown on the screen. Then click on the > icon to check the next item.



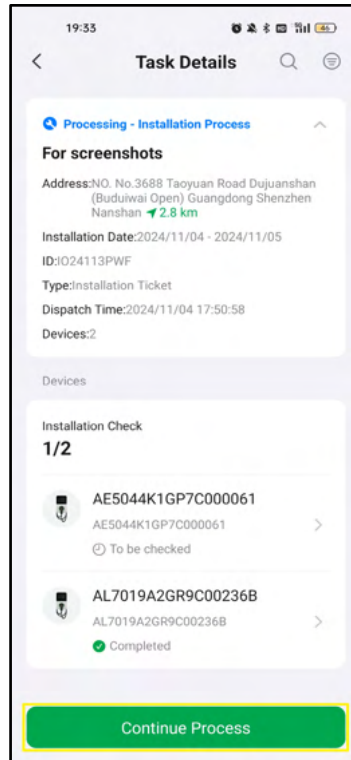
**4-13 Wire Box & Main Unit Screen**

- Repeat **step 7** to check the remaining items. After all items are checked, click on the < icon on the upper left corner to go to the **Installation Check Completed** screen. Then click on the < icon on the **Installation Check Completed** screen to go back to the **Task Details** screen.



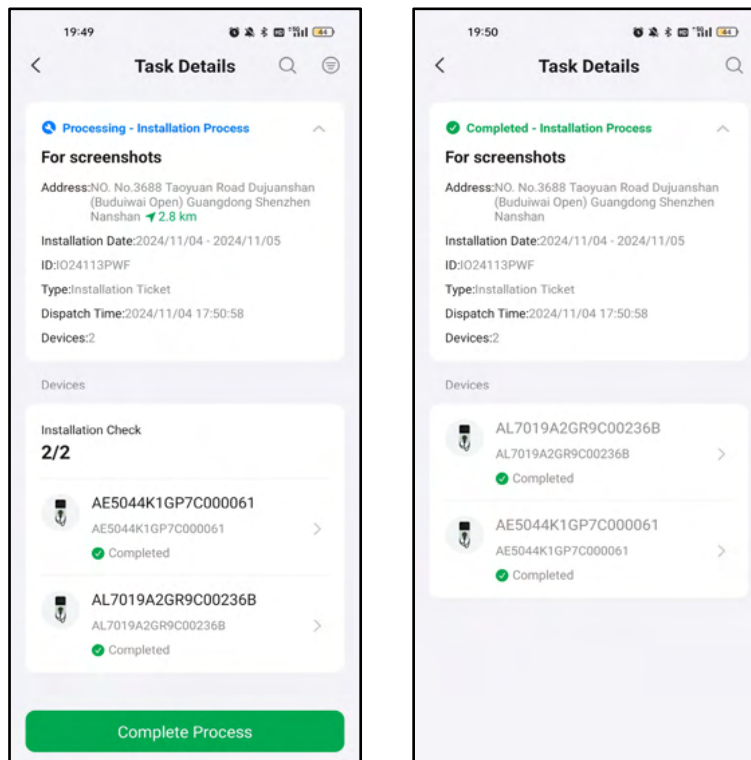
**4-14 Wire Box & Main Unit and Installation Check Completed Screens**

9. On the **Task Details** screen, click on **Continue Process** and then follow **steps 4 to 8** to finish checking a new device.



**4-15 Task Details Screen**

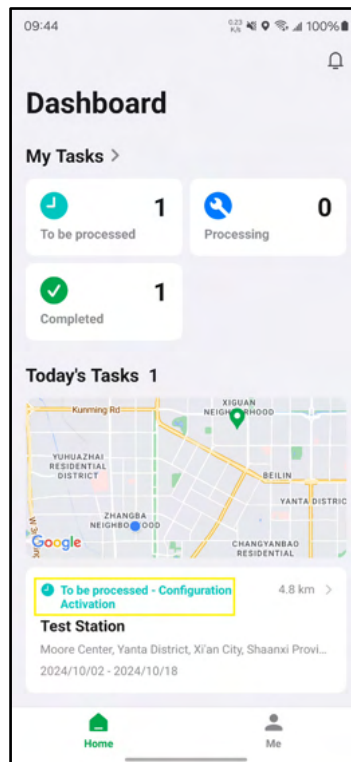
10. After all devices are checked, click on **Complete Process** to end the task of Installation Process.



**4-16 Task Details Screens**

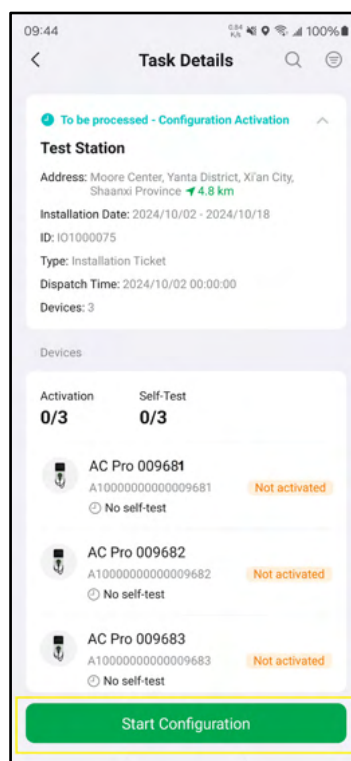
### 4.2.2.2 Configuration Activation

1. Download the Autel Config app and log in to the app as instructed in [4.2.2.1](#).
2. On the Dashboard screen, click on **Configuration Activation** to check the task details.



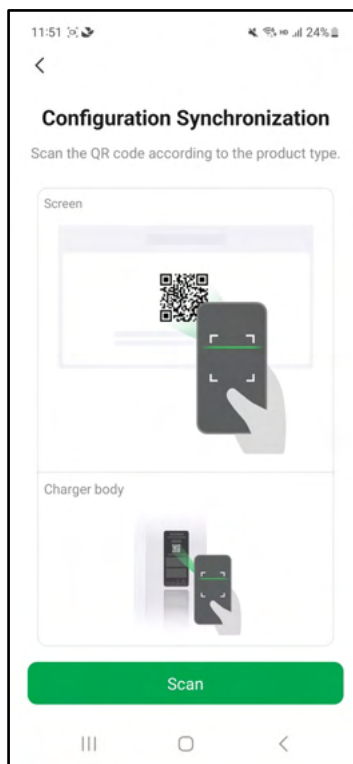
**4-17 Dashboard Screen**

3. On the Task Details screen, click on **Start Configuration** to proceed.



**4-18 Ticket Details Screen**

4. Scan the QR code on a device according to the product type to synchronize the configuration. For MaxiCharger AC Pro, scan the QR code on the screen; for MaxiCharger AC, scan the QR code on its body.



**4-19 Scanning Screen**



**NOTICE**

For sites with SmartBox, scan the QR code on the body of a SmartBox first.

---



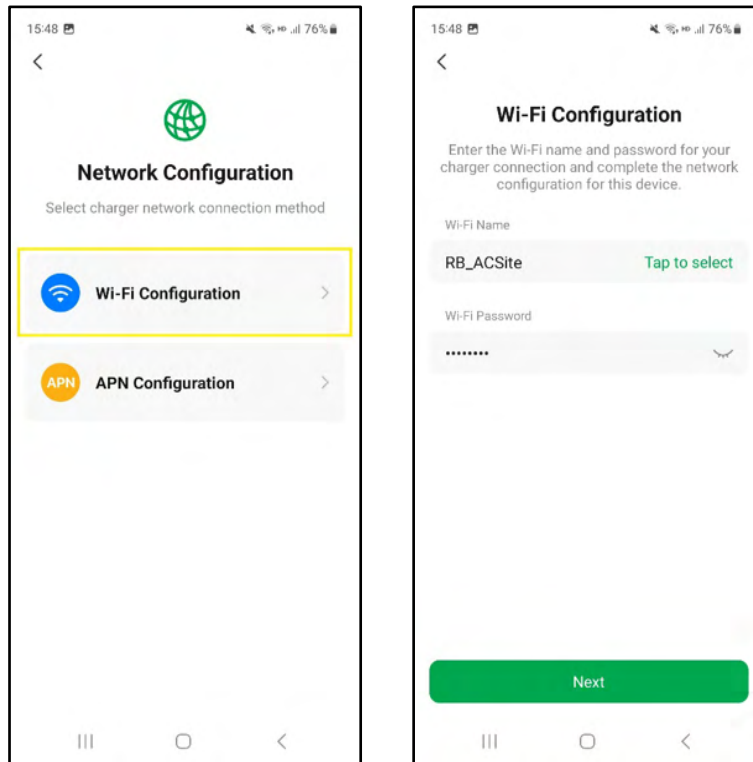
**NOTE**

Pour les sites avec SmartBox, scannez d'abord le code QR sur le corps d'une SmartBox.

---

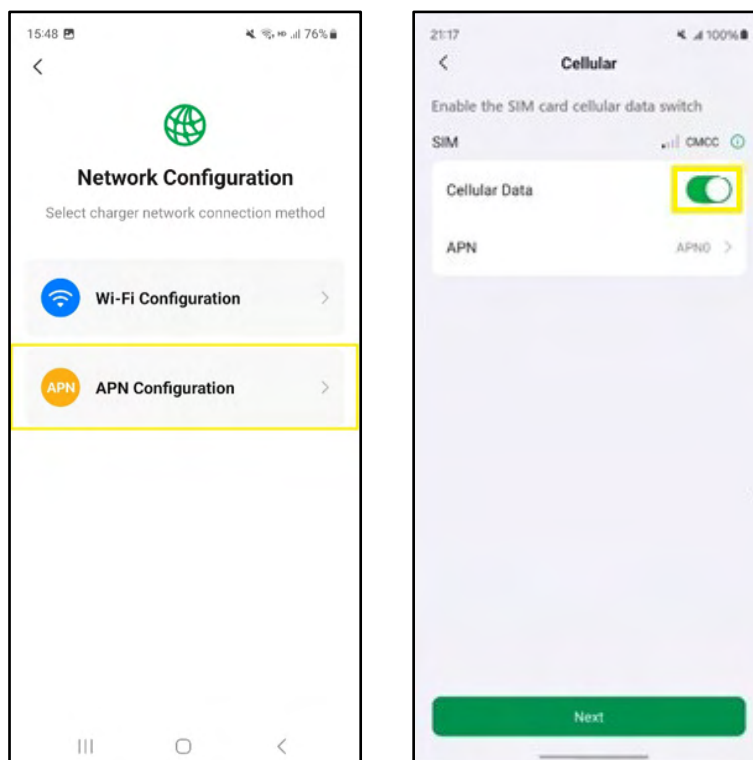
5. Configure the network for the device.

- 1) Select **Wi-Fi Configuration** and configure the Wi-Fi for the device. Then click on the **Next** button to proceed.



**4-20 Network Configuration and Wi-Fi Configuration Screens**

- 2) Select **APN Configuration** and enable the cellular data switch of one SIM card. Then click on the **Next** button to proceed.



**4-21 Network Configuration and APN Configuration Screens**



## NOTICE

If the Wi-Fi or APN has been configured during the site creation and configuration, its name and password will be entered by default. A new Wi-Fi or a new APN can be set manually.

---

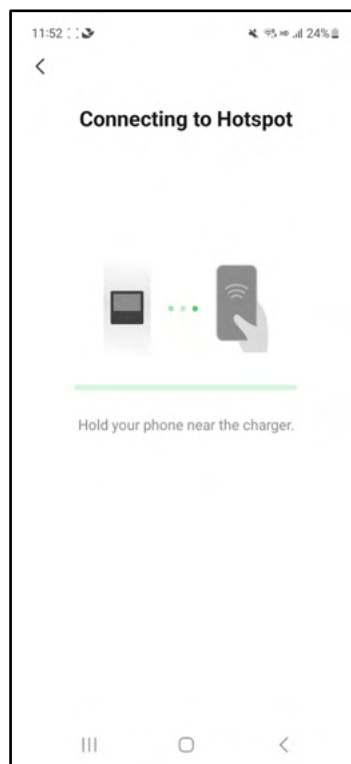


## NOTE

Si le Wi-Fi ou l'APN a été configuré lors de la création et de la configuration du site, son nom et son mot de passe seront saisis par défaut. Un nouveau Wi-Fi ou un nouvel APN peut être configuré manuellement.

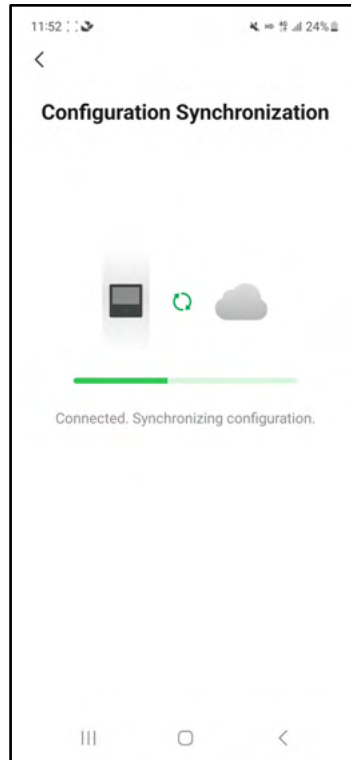
---

6. Hold your phone near the device to connect to its hotspot.



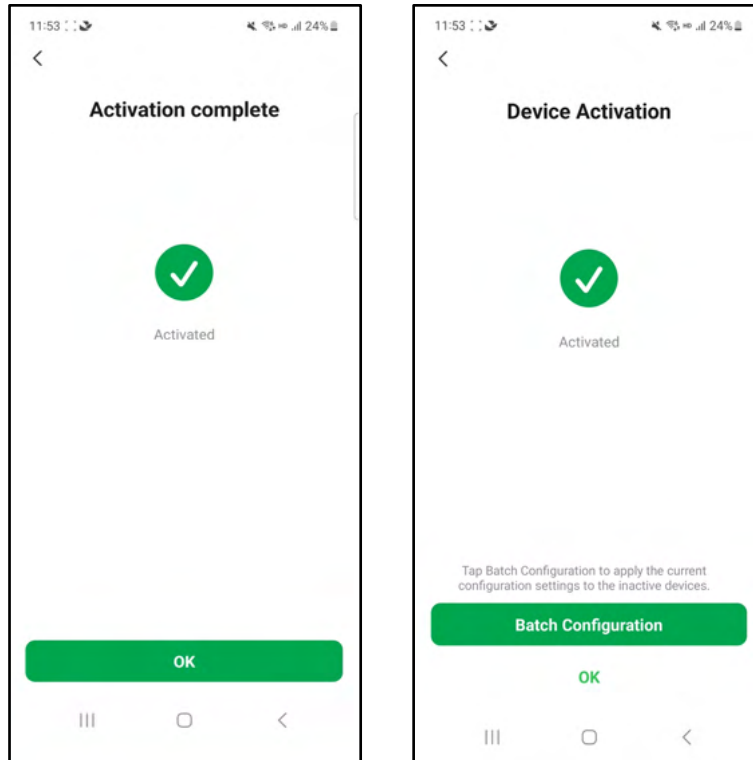
**4-22 Connecting to Hotspot Screen**

7. After your phone is connected to the hotspot of the device, the configuration will be synchronized to the device.



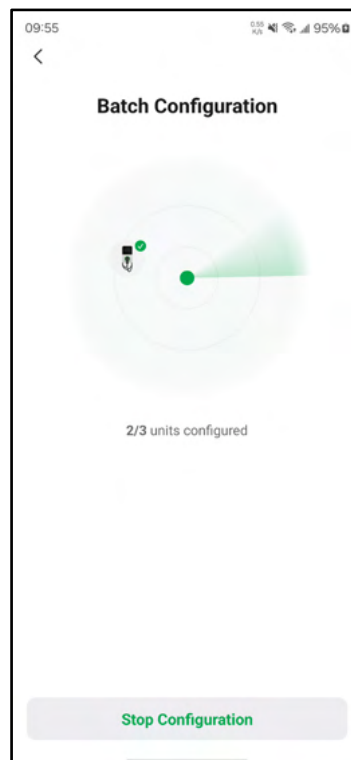
**4-23 Configuration Synchronization Screen**

8. After the configuration is synchronized, the device will get activated. Tap **Batch Configuration** to apply the current configuration settings to the inactive devices.



**4-24 Activation Screens**

9. The batch configuration will be completed automatically. During the configuration process, the inactive devices will get activated and restart. You can check the process on the screen.



**4-25 Batch Configuration Screen**

---

## NOTICE



If it takes a long time to apply the current configuration settings to some inactive devices, you can click on **Stop Configuration** or the < icon on the upper left corner of the Batch Configuration screen to go back to the **Task Details** screen so that you can see which devices are not activated. Scan the QR code on the screen or body of the devices individually to apply the configuration settings.

---

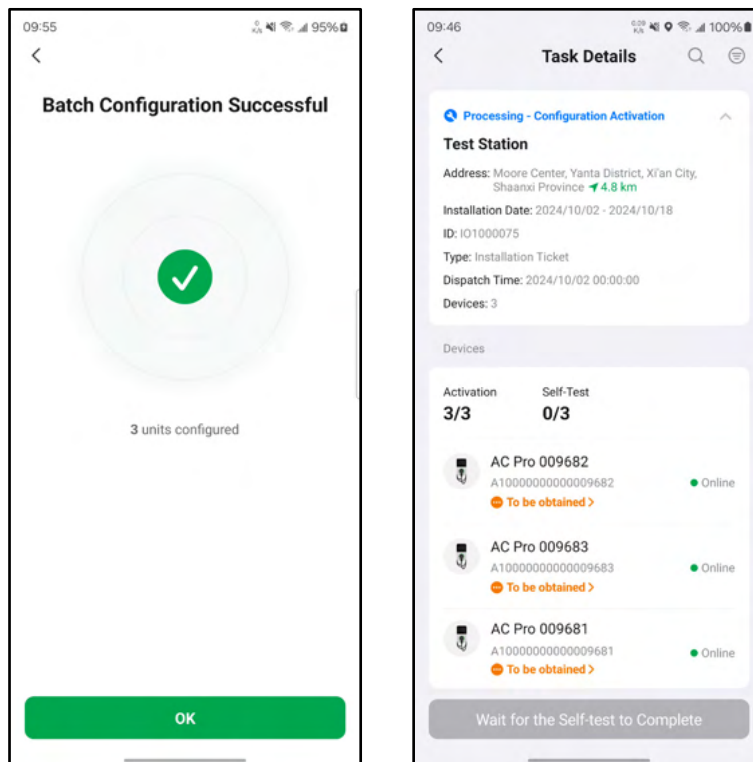
## NOTE



Si l'application des paramètres de configuration actuels à certains appareils inactifs prend beaucoup de temps, vous pouvez cliquer sur Arrêter la configuration ou sur l'icône < dans le coin supérieur gauche de l'écran Configuration par lots pour revenir à l'écran Détails de la tâche afin de voir quels appareils ne sont pas activés. Scannez le code QR sur l'écran ou le corps de chaque appareil pour appliquer les paramètres de configuration.

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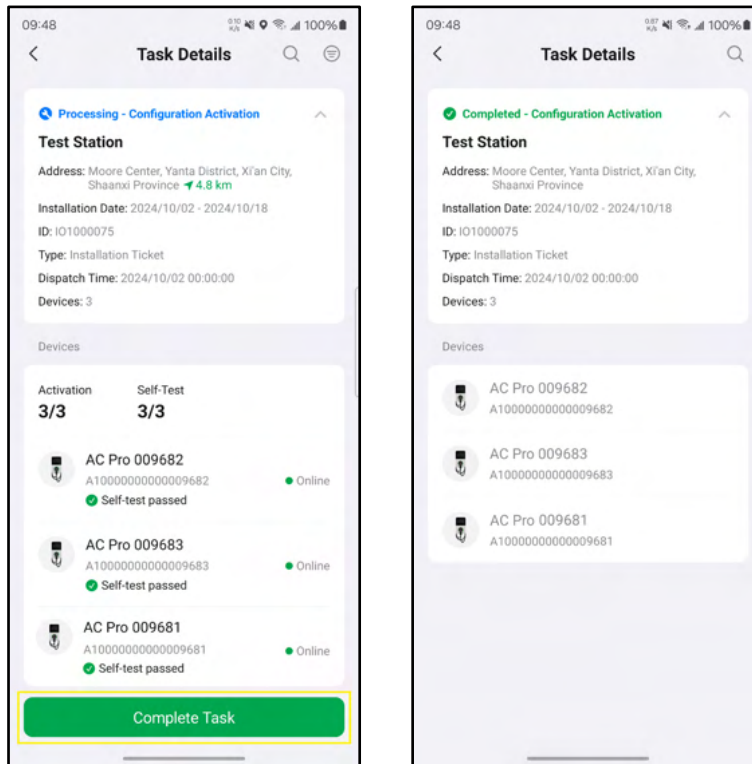
10. After the batch configuration is successful, click on the **OK** button to go back to the **Task Details** screen.



**4-26 Batch Configuration Successful and Task Details Screens**

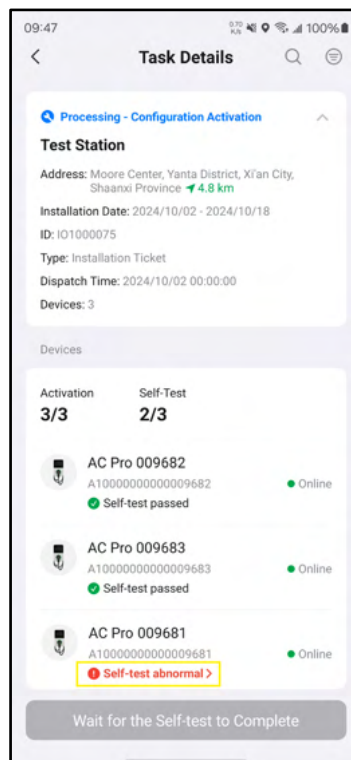
11. Wait for the self-test to complete.

- 1) If all devices pass the self-test, click on **Complete Task** to end the task of Configuration Activation.



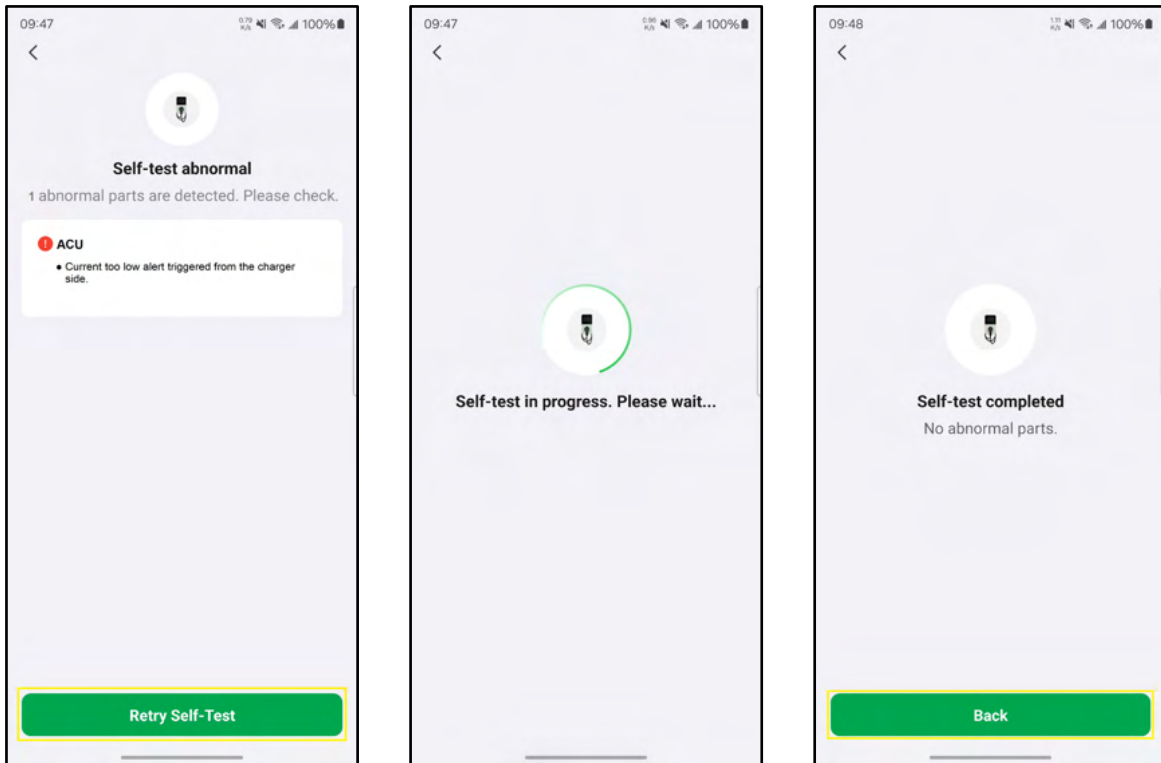
4-27 Task Details Screens

- 2) If the self-test is abnormal for some of or all of the devices, click on **Self-test abnormal** below the device's SN to see what is abnormal.



4-28 Self-test Abnormal Screens

- I. Check the abnormal parts shown on the screen and click on **Retry Self-test**. Then wait for the self-test to complete again. After the self-test is completed, click on **Back** to go back to the Task Details screen.

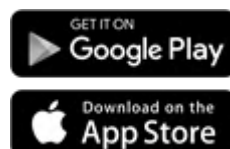


**4-29 Self-test Screens**

- II. On the Task Details screen, click on **Complete Process** to end the task of Installation Process.

## 4.3 Adding the Charger (For Residential Use)

1. Scan the QR code below to download the Autel Charge app to your mobile device from the Google Play or App Store. For iOS users, you will be redirected to the App Store; for Android users, you will be redirected to the Google Play.



2. Open the Autel Charge app on your mobile device, and log in with your phone number or email. If you do not yet have an account, register with your phone number first.
3. Scan the QR code or manually enter the SN and PIN from the *Quick Reference Guide* to add the charger.
4. Follow the on-screen instructions to connect your charger via its hotspot and connect it to the Internet. Then choose a desired function to start.



### NOTICE

The hotspot of the charger can be opened by tapping the button on the connector.

---



### NOTE

Le point d'accès de la borne de recharge peut être activé en appuyant sur le bouton situé sur le connecteur.

---

## 4.4 Display Descriptions



### NOTICE

This section only applies to the MaxiCharger AC Pro. The images are subject to change; please refer to the actual product.

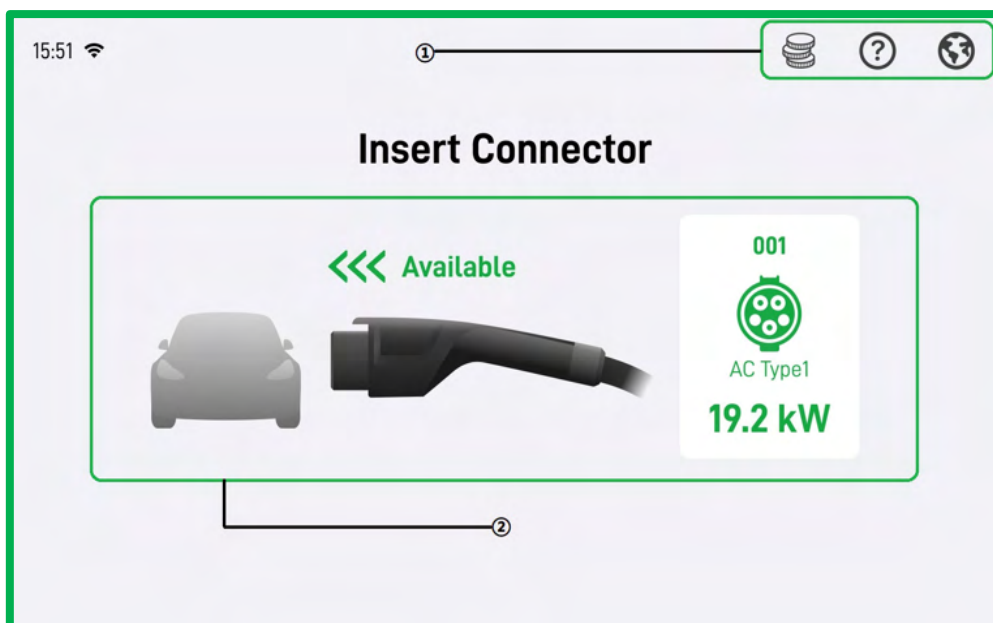


### NOTE

Cette section s'applique uniquement au MaxiCharger AC Pro. Les images sont susceptibles d'être modifiées; veuillez vous référer au produit réel.

### Function Button Descriptions

| 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. |



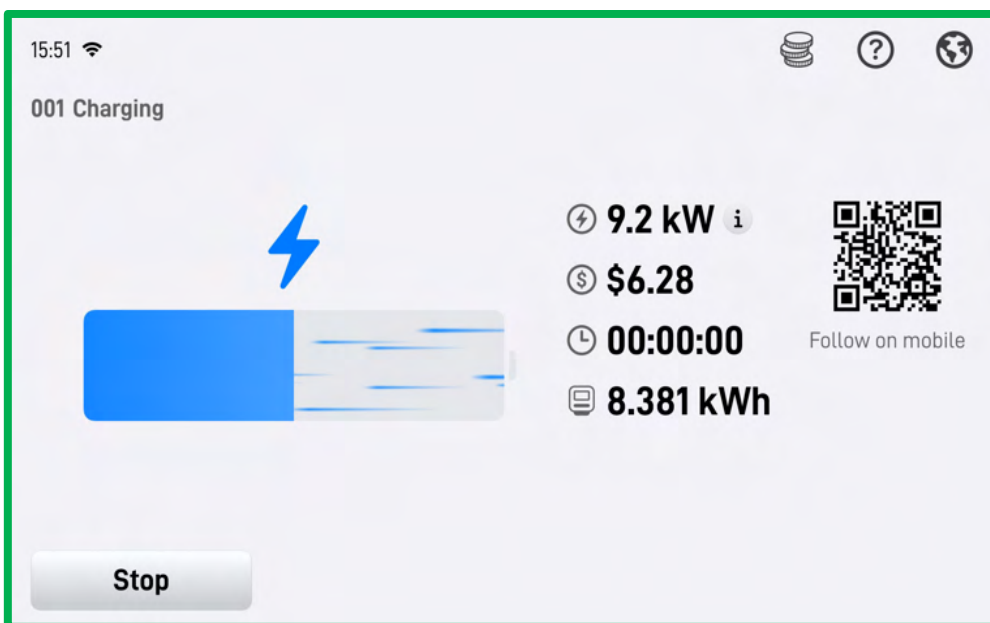
**4-30 Standby Screen**

1. Upper information bar—adjusts the language and checks the charging fees
2. Main screen—demonstrates connector information



**4-31 Authorization Screen**

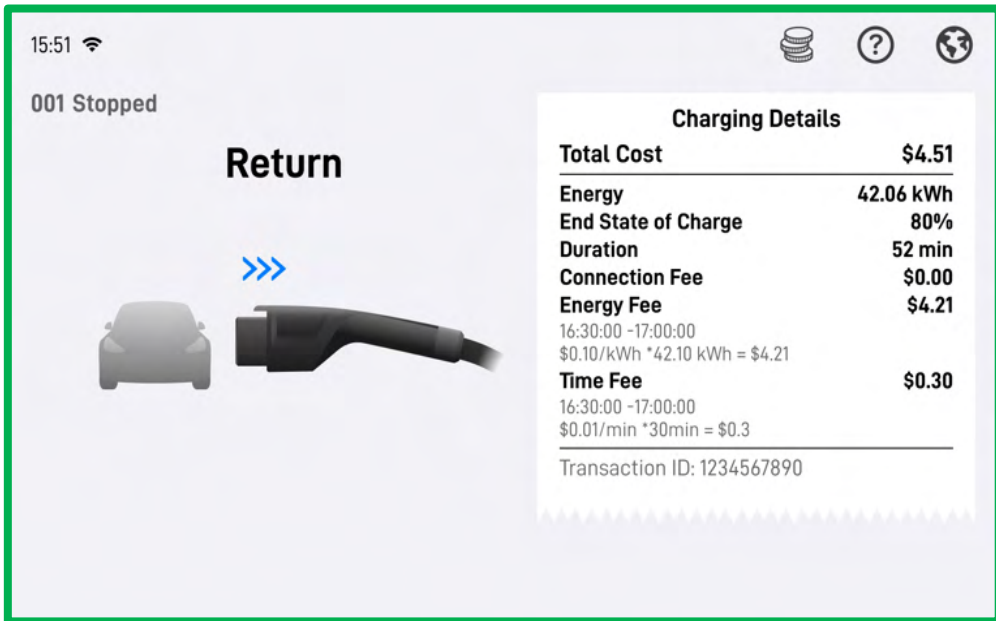
Choose a method (RFID card or QR Code) to authorize charging on the Authorization Screen.



**4-32 Charging Screen**

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

The power, cost, charging duration, and energy will appear on the Charging Screen. Tap the **Stop** button to stop charging.



#### **4-33 Charging Details Screen**

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

## 4.5 Starting Charging

1. Remove the connector from the holster.
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 charger will automatically start charging once the connector is properly connected.
  - If you have set a charging schedule in the Autel Charge app, the charger will initiate a charge session automatically as scheduled.
  - If the charger 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.



### NOTE

Assurez-vous que le VE est en train de se charger. Si vous pensez que le véhicule ne se charge pas correctement, essayez de rebrancher le connecteur ou contactez l'assistance technique d'Autel.

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## 4.6 Stopping Charging

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### NOTICE



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

### NOTE



- Si le connecteur est débranché du VE pendant une session de charge, la borne de recharge déconnecte automatiquement l'alimentation électrique. Toutes les opérations de charge sont alors interrompues.
  - Lorsque le véhicule est complètement chargé, la borne de recharge déconnecte automatiquement.
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#### 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 charger has a display, tap **Stop** on the Charging Screen.

#### 2. Unplug the connector from the EV and return it to the holster.

## 4.7 LED Descriptions

### LED Descriptions

| Color  | Light                           | Description   |
|--------|---------------------------------|---|
| Yellow | Solid Yellow                    | ➤ The charger is not activated.   |
|        |                                 | ➤ The charger is disabled after being activated.                                |
|        | Flashing Yellow                 | The charger is being activated.   |
|        | Streaming Yellow                | Batch configuration status.   |
|        | Breathing Yellow                | The charger is upgraded.  |
| Green  | Solid Green                     | The charger is available.   |
| Blue   | Solid Blue                      | ➤ The connector is plugged into an EV and the charger waits for authentication. |
|        |                                 | ➤ An EV finishes charging and the connector waits for being unplugged.          |
|        | Breathing Blue                  | Charging status.  |
| Red    | Solid Red                       | ➤ Malfunction status.<br>➤ The charger is unavailable.                          |
| Cyan   | Solid Cyan                      | The charger has been reserved.  |
|        | Cyan light flashes three times. | The charger's hotspot is opened manually.                                       |

# 5 Troubleshooting

| Item | Problems  | Solutions   |
|------|---|---|
| 1    | The MaxiCharger AC Pro is successfully added, but the Bluetooth connection fails. | Check whether the QR code on the charger 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 276 V, 115 % of the rated voltage (240 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 166.4 V, 80 % of the rated voltage (208 V), contact local power grid company.  |
| 5    | Ground fault  | Ensure the charger is grounded correctly.   |
| 6    | Power failure   | Ensure the switch to the circuit breaker is on.   |
| 7    | Over-heating  | <ul style="list-style-type: none"><li>➤ Check whether the EV charging cable is securely connected.</li><li>➤ Ensure the operating temperature is within the specified range on the product label.</li><li>➤ Stop charging. Restart charging until it is within the operation temperature range.</li></ul> |
| 8    | Residual current detected   | Unplug the vehicle and plug in again. If the problem persists, contact customer support.  |

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|    |  |  |
|----|--|--|
| 9  | Bluetooth communication failure for the MaxiCharger AC Pro | <ul style="list-style-type: none"><li>➤ Ensure the Bluetooth is enabled on your mobile device and the charger is powered on and operating properly.</li><li>➤ Forget the charger in the Bluetooth settings on your mobile device and pair the charger to your device via Bluetooth again.</li><li>➤ If the problem persists, contact customer support.</li></ul> |
| 10 | Update failure via Bluetooth for the MaxiCharger AC Pro    | <ul style="list-style-type: none"><li>➤ Make sure the charger is in idle status.</li><li>➤ Make sure the Bluetooth connection is working properly.</li><li>➤ If the problem persists, contact customer support.</li></ul>  |
| 11 | Internet connection failure                                | <ul style="list-style-type: none"><li>➤ Try to connect another device to the same Internet, verifying the Internet connection is working properly.</li><li>➤ If the problem persists, contact customer support.</li></ul>  |

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## 6 Specifications

| Item   | Description   |
|--|---|
| <b>Input/Output Power Rating and Current</b> | 19.2kW (240V AC 80A)<br>Output amperage adjustable via mobile app, from 6A to 80A, support 16A, 24A, 32A, 40A, 48A, 50A, 64A, 72A, 80A via the DIP switch |
| <b>Input/Output Voltage</b>                  | 208/240V AC 50/60Hz   |
| <b>Input Power Connections</b>               | L1, L2, input power connections and Earth Ground, support high-leg delta wiring configuration   |
| <b>Input Cord</b>                            | Hardwired   |
| <b>Connector Type</b>                        | SAE J1772   |
| <b>Charging Cable Length</b>                 | <b>MaxiCharger AC:</b> 19 ft. (6 m); 25 ft. (7.5 m)<br><b>MaxiCharger AC Pro:</b> 19 ft. (6 m); 25 ft. (7.5 m)  |
| <b>Ground Fault Detection</b>                | 20 mA CCID  |
| <b>Protection</b>                            | Overcurrent, overvoltage, undervoltage, overtemperature, integrated surge protection  |
| <b>Connectivity</b>                          | 4G<br>Wi-Fi<br>Ethernet<br>RS485 (Modbus, expand smart energy meter, etc.)<br>Wi-SUN  |
| <b>Card Reader</b>                           | ISO 15693, ISO 14443 A/B, ISO 18092   |
| <b>Metering Accuracy</b>                     | ±1%, NTEP/CTEP Certified  |
| <b>Status Indication</b>                     | <b>MaxiCharger AC:</b> LED/App<br><b>MaxiCharger AC Pro:</b> LEDs and 7-inch LCD, 800 x 480 touch screen  |
| <b>Vehicle Communication</b>                 | ISO 15118-2/20  |
| <b>User Interface</b>                        | Autel Charge APP; Autel Charge Cloud  |

|                                       |  |
|---------------------------------------|--|
| <b>Communication Protocols</b>        | OCPP 1.6J, OCPP 2.0.1 (for the MaxiCharger AC Pro)   |
| <b>Current Control Method</b>         | App, hardware DIP switch (Dial)  |
| <b>Software Update</b>                | OTA updates via web portal   |
| <b>Authentication Methods</b>         | PnC, Autocharge, RIFD  |
| <b>Mounting</b>                       | Wall or floor using a pedestal (ADA)   |
| <b>Enclosure Ratings</b>              | NEMA 3S, IK10  |
| <b>Operating Altitude</b>             | 9842 ft. (3000 m)  |
| <b>Operating Temperature Range</b>    | <b>MaxiCharger AC:</b> –40 to 131 °F (–40 to 55 °C)<br><b>MaxiCharger AC Pro:</b> –31 to 131 °F (–35 to 55 °C)<br>Derate when above 113 °F (45 °C) |
| <b>Storage Temperature Range</b>      | –40 to 158 °F (–40 to + 70 °C)   |
| <b>Dimensions (H x W x D)</b>         | 14.5" x 8.5" x 5.1" (368 x 216 x 130 mm)   |
| <b>Package Dimensions (H x W x D)</b> | 19.4" x 14.6" x 10" (492 x 370 x 254 mm)   |
| <b>Weight</b>                         | <b>MaxiCharger AC:</b> approx. 20.3 lbs. (9.2 kg)<br><b>MaxiCharger AC Pro:</b> approx. 20.7 lbs. (9.4 kg)   |
| <b>Safety Standards</b>               | UL 2594, UL2231-1, UL2231-2, UL 1998, CSA C22.2. NO.280  |
| <b>Codes and Standards</b>            | FCC Part 15 Class B, ENERGY STAR, OpenADR 2.0b, NEC Article 625  |
| <b>Lifespan</b>                       | 10 + years   |
| <b>Warranty</b>                       | 5 years: the charger body, backplate and all internal components<br>1 year: the display screen, charging cable and connector                       |

# 7 Compliance

## **FCC regulatory conformance:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

## **RF Exposure**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **IC regulatory conformance:**

This device complies with CAN ICES-3 (B)/NMB-3(B).

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme à la norme CAN ICES-3 (B)/NMB-3 (B).

Cet appareil contient des émetteurs / récepteurs exempt (s) de licence qui sont conformes aux RSS exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

### **RF Exposure**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d' exposition aux rayonnements de la IC établies pour un environnement non contrôlé. Cet équipement doit être installé et fonctionner à au moins 20cm de distance d'un radiateur ou de votre corps.

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