ARMATURA

FT10CMQ
Quick Start Guide

Version: 1.0

Overview

Front

Back

Side

Bottom

2.76"(70.0mm)

5.71"(145.0mm)

1.25"(31.8mm)
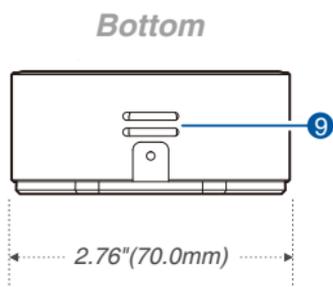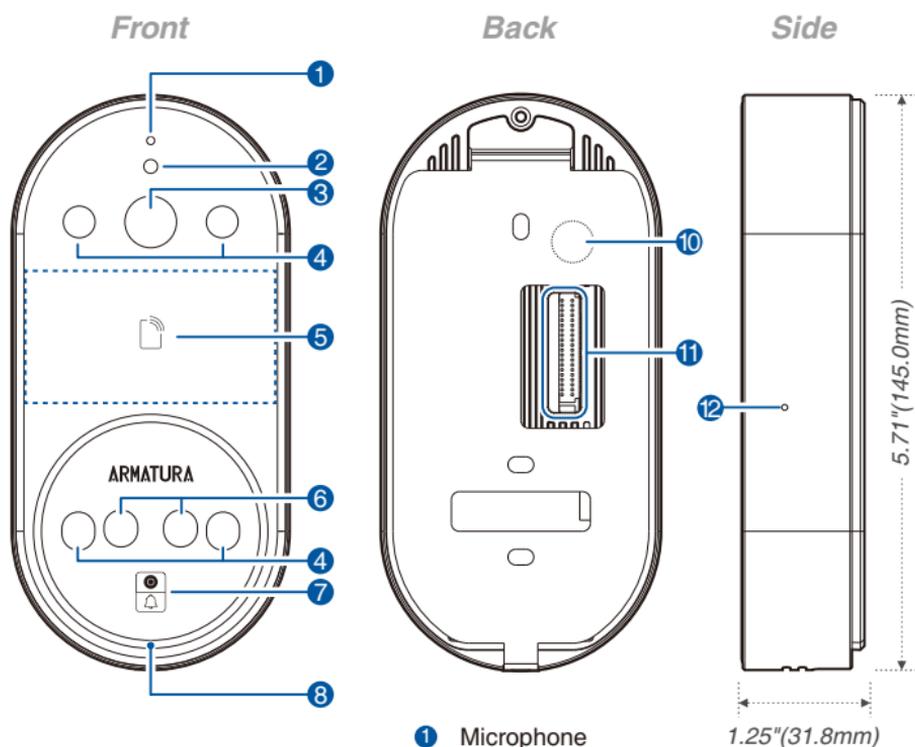
1. Microphone
2. Proximity sensor
3. Security Camera
4. Near-Infrared Flash
5. Card Reading Area
6. Binocular Camera
7. Touch Doorbell
8. LED Indicator
9. Speaker
10. Tamper Switch
11. Terminal Block
12. Reset

Installation Environment

Please refer to the following recommendations for installation.

KEEP DISTANCE

AVOID GLASS
REFRACTION

AVOID DIRECT
SUNLIGHT
AND EXPOSURE

KEEP EFFECTIVE
DISTANCE
0.5-2m

Recommended Palm Gestures
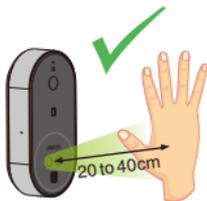
KEEP EFFECTIVE
DISTANCE OF
20 to 40 cm

KEEP SPACES
BETWEEN
YOUR FINGERS

DO NOT KEEP
YOUR FINGERS
CLOSE

DO NOT KEEP
PALM OUTSIDE
COLLECTION AREA

DO NOT KEEP
YOUR FINGERS
FOLD/CURLED

Note:

1. Place your palm within 20 to 40 cm of the device.
2. Place your palm in the palm collection area, such that the palm is placed parallel to the device.
3. Make sure to keep space between your fingers.

Recommended Method for Swiping Card

The Specific Range of Card Reading Area:
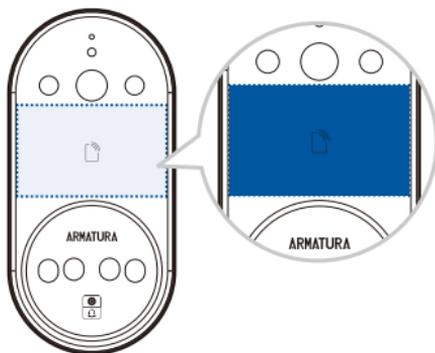
Notes for Swiping Card:

1. Supports card orientation in horizontal, vertical, and oblique directions.
2. The card should be placed parallel to the device.
3. Ensure that the card is at the center of the card reading area.

Frequency	Protocols	Card Types	Max Range
125KHz	\	EM4100	25mm
	\	HID Prox	30mm
13.56MHz	ISO14443A	MIFARE	20mm
		DESFire	15mm
		HID iCLASS SEOS	10mm
	ISO15693	HID iCLASS/SE/SR/Elite	50mm
	ISO18092	FeliCa	20mm

AT THE CENTER OF THE AREA

TOO CLOSE TO THE EDGE

OUT OF THE AREA

CARD WITH LEATHER PROTECTIVE COVER, ETC

NOT PARALLEL TO THE DEVICE

Device Installation

With Backplate:

1. Attach the mounting template sticker to the wall, and drill holes according to the mounting paper.
2. Fix the Backplate on the wall using wall mounting screws.
3. Attach the device to the Backplate.
4. Fasten the device to the Backplate with a security screw.
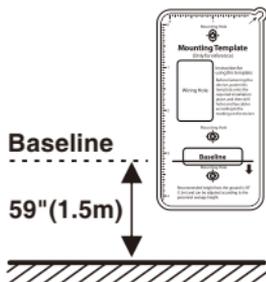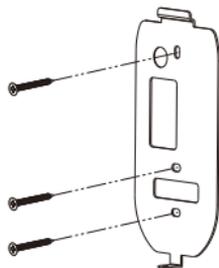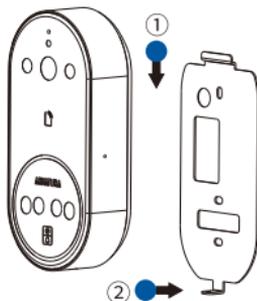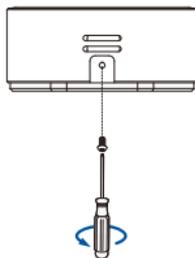
Standalone Installation

RS485 Reader — RS485
Card Reader — Wiegand
Door Sensor
Lock
ARMATURA
TCP/IP — PC
Exit button
Bell
Smoke Detector
Alarm

Terminal Block

ALARM+
ALARM-
BELL+
BELL-
Alarm & Bell

NC
NO
COM
SEN
GND
BUT
AUX
Lock,
Door Sensor,
Exit Button &
Auxiliary Input

12-24VIN
12-24VIN
12-24VIN
GND
GND
GND
Power In

12V_OUT
GND
RS-485A
RS-485B
Wiegand D0-OUT
Wiegand D1-OUT
Wiegand D0-IN
Wiegand D1-IN
Power Out,
RS-485,
Wiegand Out &
Wiegand In

TX+
TX-
RX+
RX-
Network

Power Connection

The device can be powered using either a 12-24V DC power adapter or PoE, depending on availability.

12-24V
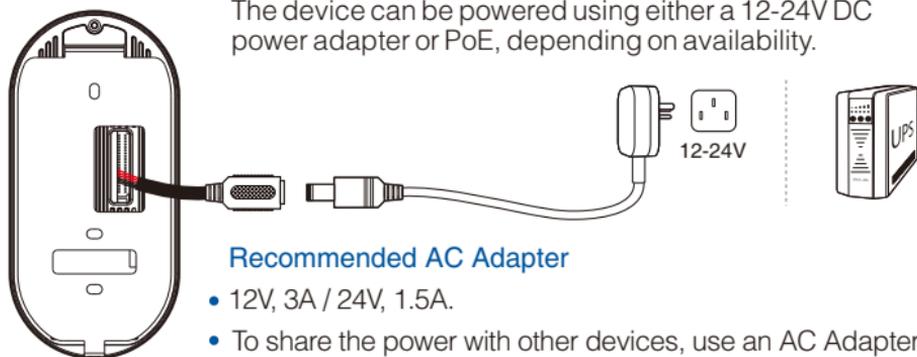
Recommended AC Adapter

- 12V, 3A / 24V, 1.5A.
- To share the power with other devices, use an AC Adapter with higher current ratings.

Ethernet Connection

Connect the device and computer software over an Ethernet cable. As shown in the example below:

PC

Default IP address: 192.168.**1**.201
Subnet mask: 255.255.255.0

IP address: 192.168.**1**.130
Subnet mask: 255.255.255.0
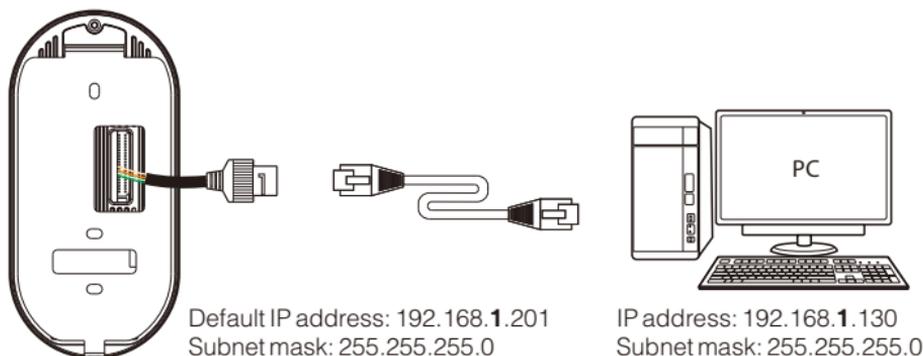
On the Webserver, click [Advanced Settings] > [COMM.] > [IP Address] to input the IP address.

Note: In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to the software.

Wiegand Reader Connection

12V_OUT	
GND	
RS-485A	
RS-485B	
Wiegand D0-OUT	
Wiegand D1-OUT	
Wiegand D0-IN	
Wiegand D1-IN	

WD0
WD1
Access Controller

+9~24V DC
Ground
Wiegand Data 0
Wiegand Data 1

Wiegand Reader

RS485 Connection

12V_OUT	+12V
GND	GND
RS-485A	485+
RS-485B	485-
Wiegand D0-OUT	
Wiegand D1-OUT	
Wiegand D0-IN	
Wiegand D1-IN	
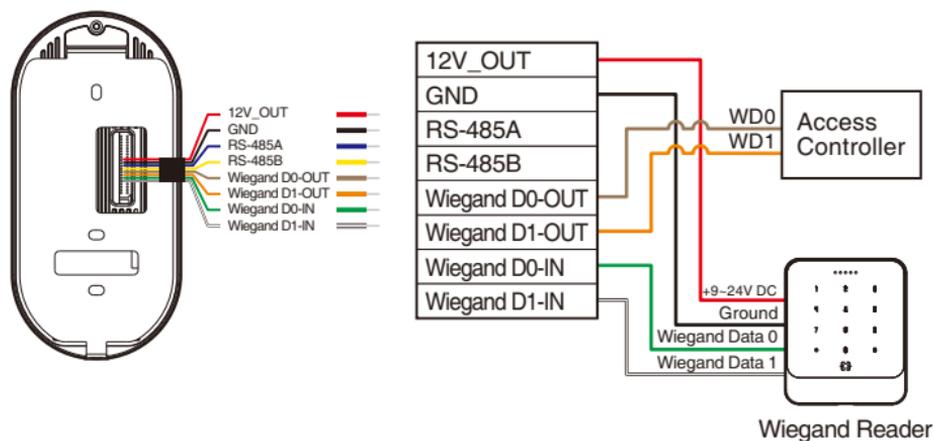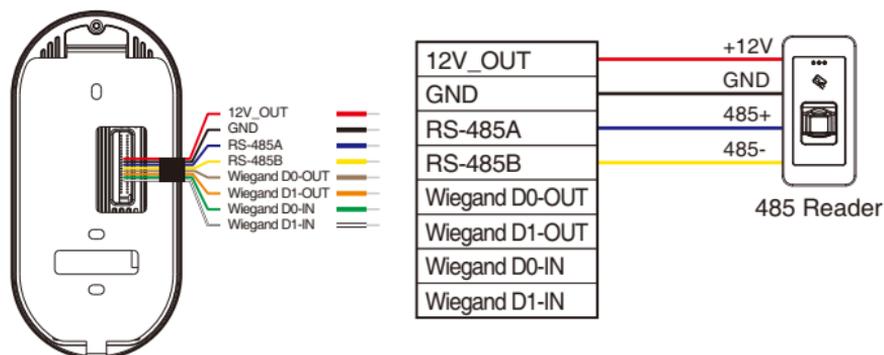
485 Reader

Note: 485A and 485B can be connected to the Barrier gate or the 485 Reader, separately, but cannot be connected to the gate and reader at the same time.

Lock Relay Connection

The system supports **Normally Opened Lock** and **Normally Closed Lock**. The **NO LOCK** (normally unlocked when power-on) is connected with '**NO**' and '**COM**' terminals, and the **NC LOCK** (normally locked when power-on) is connected with '**NC**' and '**COM**' terminals. Take NC Lock as an example below:

1) Device not sharing power with the lock

Do not reverse the polarity.

Normally Closed Lock

Maximum 30V 3A input.
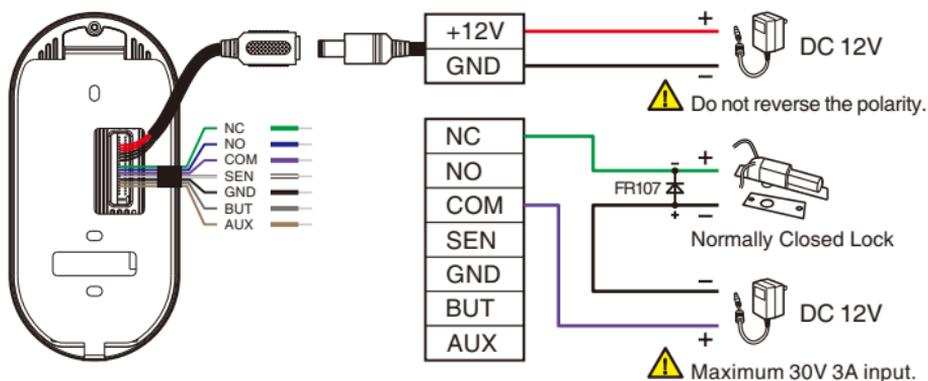
2) Device sharing power with the lock

Normally Closed Lock
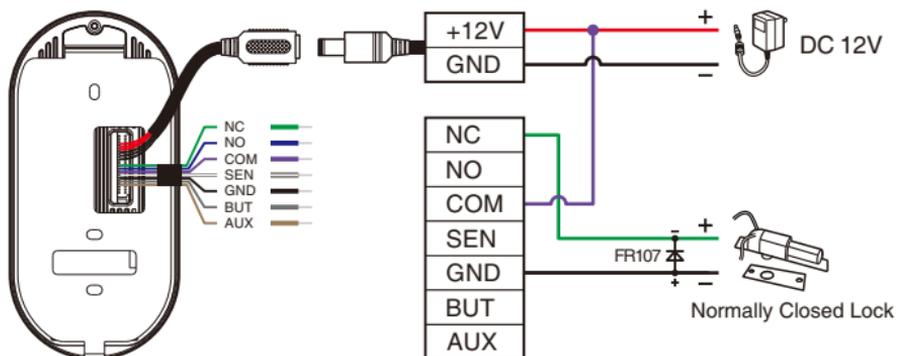
Door Sensor, Exit Button, Auxiliary Connection

NC
NO
COM
SEN
GND
BUT
AUX

NC
NO
COM
SEN
GND
BUT
AUX

Door Sensor

COM

NO

Smoke Detector

Detector Power

Exit Button
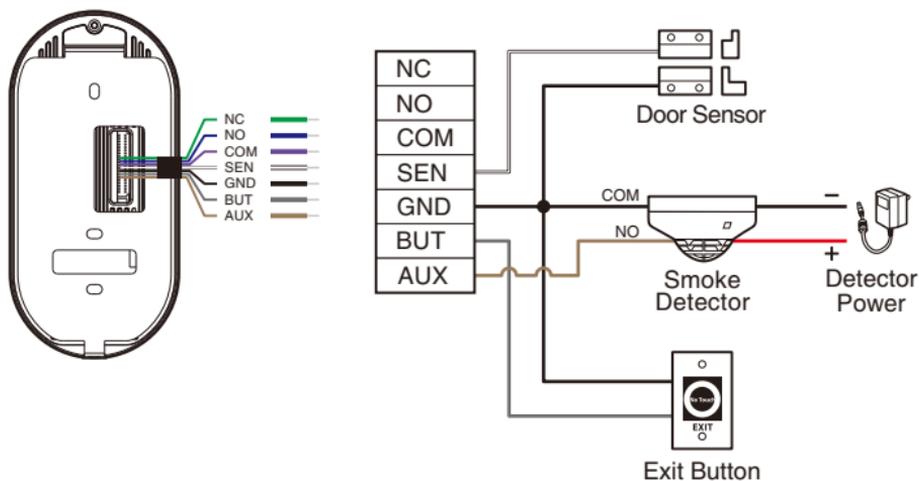
Alarm, Bell Connection

ALARM+
ALARM-
BELL+
BELL-

ALARM+
ALARM-
BELL+
BELL-

DC 12V

Alarm

Bell

DC 12V
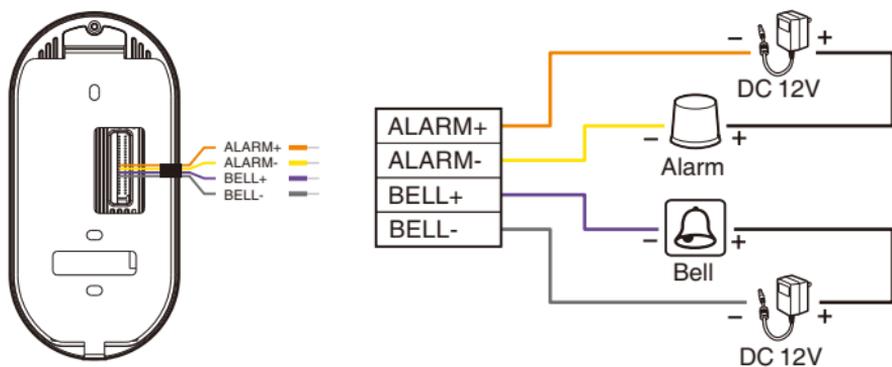
Controller Connection

The device can be used as a reader and connected to the AHSC-1000 controller via RS-485.
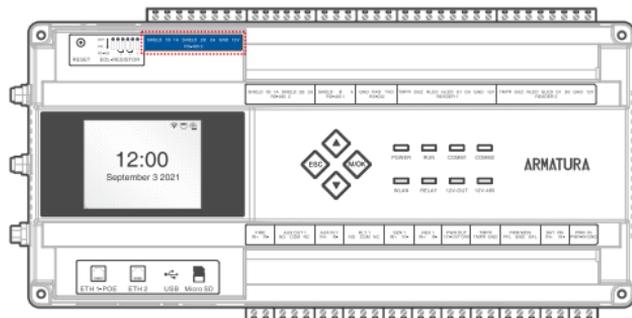
AHSC-1000 Controller

SHIELD	1B	1A	SHIELD	2B	2A	GND	12V
			RS-485 3				

120Ω

+12V
GND

485+
485-
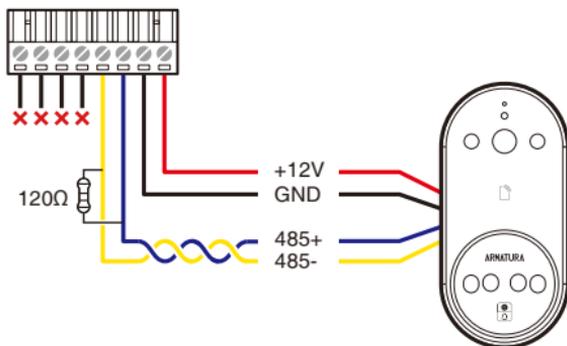
485 Reader

Connecting the Armatura Connect/ID App

Search for the "**Armatura Connect**" and "**Armatura ID**" App in the iOS App Store or the Google Play Store. Install and log in to the installer account.

Armatura ID   Armatura Connect

When you register as a user of Armatura ID, you will receive an email with activa-tion code from Armatura. Please activate your mobile credential according to the following steps.
1. Click the link on the email to activate.
2. Or scan the QR code or input the activation code in the email on the App to activate.
3. Activate successfully, enjoy with your Mobile Credentials.

1. Open the Armatura Connect App and enter the installer account and pass-word.
2. Click [**Sign In**] to log into the Armatura Connect App.
3. After entering the Welcome Home page, users can search device, set the parameters and set the template.
4. Then assign the device to the specified company.
5. Refer to the Armatura Connect App user manual for more information.

Login to the Webserver

After the device is powered on, connect the device using a network cable. Access the WebServer by entering the IP address and server port in the address bar of your browser. The IP address is set as:

https://device IP address:1443. The IP address is https://**192.168.1.201**:1443 by default.

The default user name is [**admin**] and the password is [**admin@123**].

Note: In LAN, IP addresses of the server (PC) and the device must be in the same network segment.
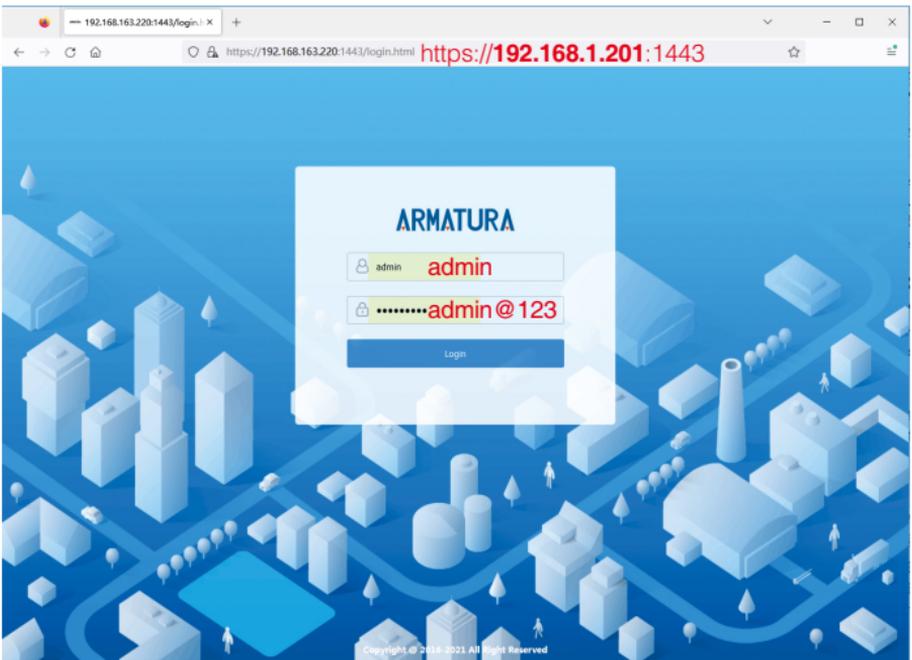
Step 2: Modify the IP address

Click [**Advanced Settings**] > [**COMM.**] to set the network parameters.
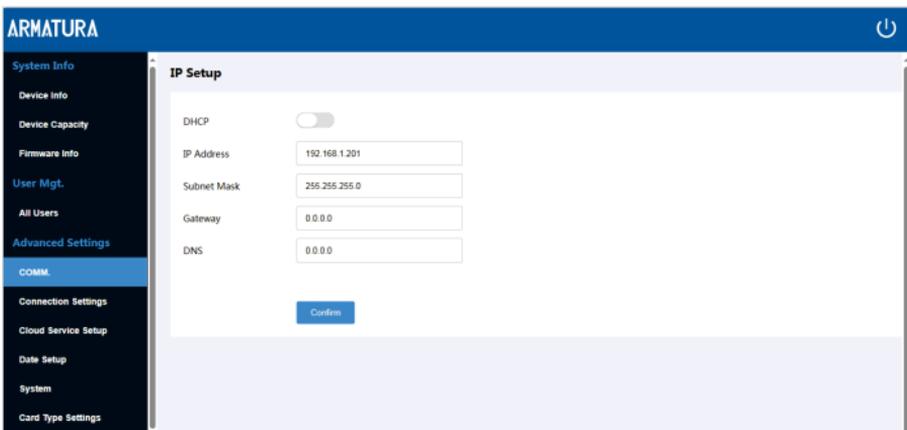
Step 3: Cloud Service Setting

Click [**Advanced Settings**] > [**Cloud Service Setup**] to set the server address and server port, that is, the IP address and port number of the server after the software is installed.

User Registration

Step 1: Adding devices to the software

The default IP address of the device is **192.168.1.201**. When connecting to the software, make sure that the IP addresses of the server (PC) and the device are in the same network segment.

1. Log into the Armatura One software.
2. Click [**Access**] > [**Device**] > [**Device**] > [**New**] > [**Search**] to search the device on the software. When an appropriate server address and port is set on the device, the searched devices are displayed automatically.
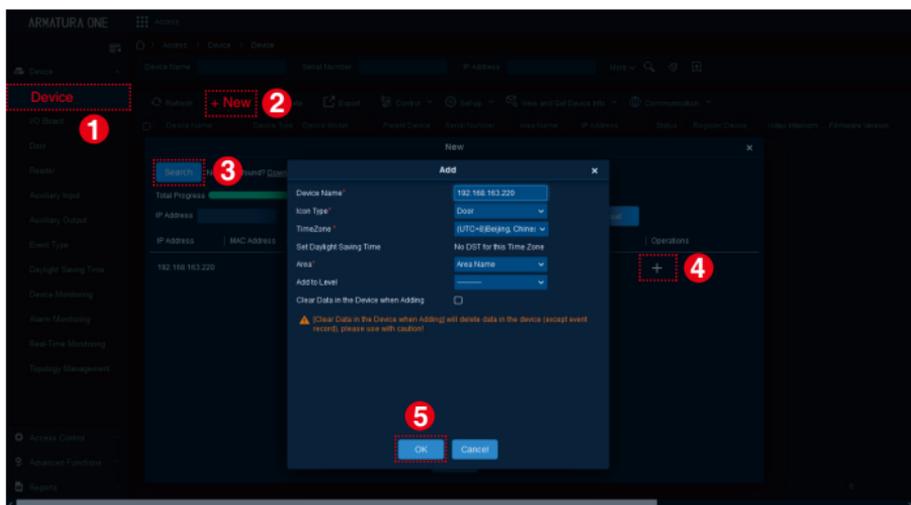
3. Click [**+**] in operation column, the Add window will pop-up. Select Icon type, Area, and Add to Level from each dropdowns and click [**OK**] to add the device.
4. Once added, the device is displayed in the device list.

Step 2: Register users on the Armatura One software

1. Click [**Personnel**] > [**Personnel**] > [**New**] and fill in all the required fields to register a new users in the software.

2. Click [**OK**] to save and exit.
3. Click [**Access**] > [**Device**] > [**Control**] > [**Synchronize All Data to Devices**] to synchronize all the data to the device including the new users.
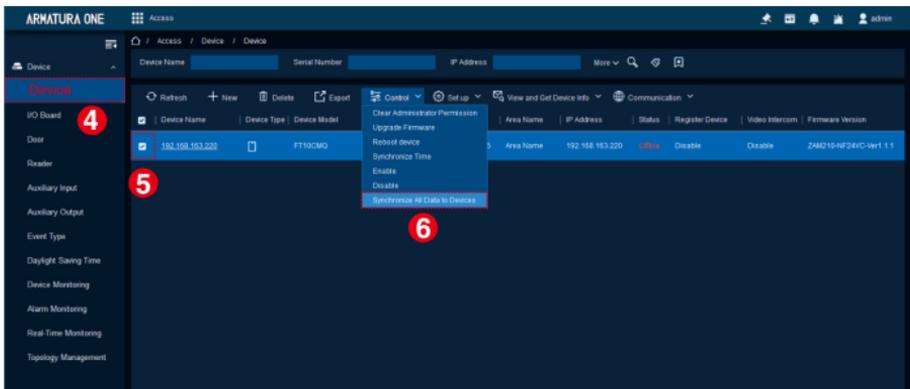
Set Access Levels

Step 1: Add Access Levels Group

1. Click [**Access**] > [**Access Control**] > [**Access Levels**] to enter the setting interface.
2. Click [**New**] to add a new access control level group.
3. Enter the level name, time zones and setting area, then click [**OK**] to confirm and exit.
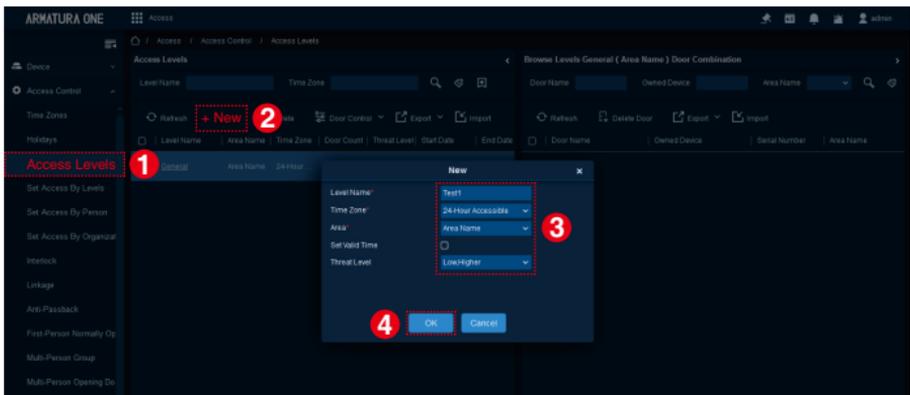
Step 2: Set Access by Levels

Add personnel to the access control level group.
1. Click [**Access**] > [**Access Control**] > [**Set Access By Levels**] to enter the setting interface.
2. Check the levels group and click the ⚲⁺ [**Add Personnel**] icon in its bar to open the settings window.
3. Select the person and then click ⟩ to move it to the selected column on the right.
4. Click [**OK**] to confirm and exit.
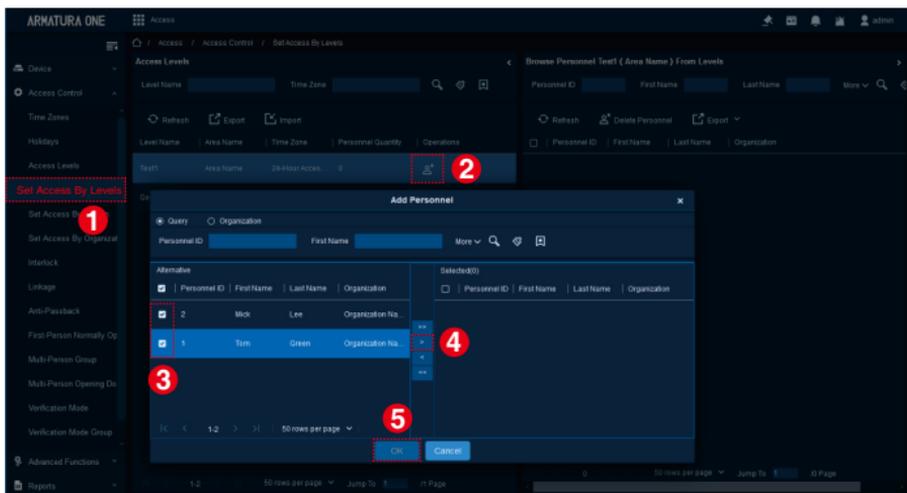
For more details, please refer to the Armatura One User Manual.

Company Assign

Open the Armartura Connect App.

1. Click ≡ icon > [**Parameter**] to enter the parameter interface.
2. Turn on the bluetooth function of the mobile phone. Click 🔍 icon to search the reader.
3. Find the reader closest to you and click 📍 icon to open the locate window. Click 🔔 button to confirm the reader. Then click [**Connect**] to connect the reader.
4. Click [**Company Assignment**] and select the company in the popup window. Then click [**Assign**] to assign the reader to the specified company.
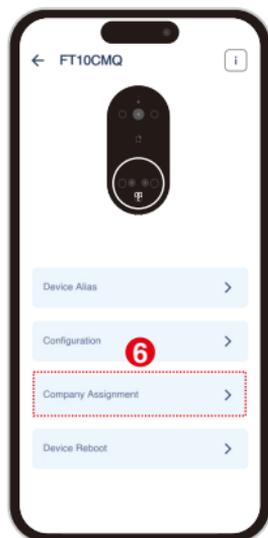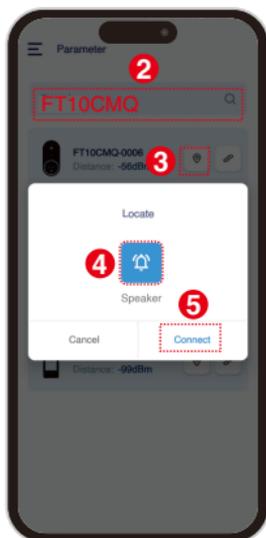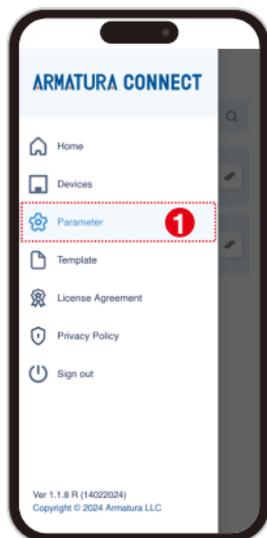
Using Mobile Credential

Open the Armartura ID App. You can use mobile credential in two ways.

Mode 1: Using Remote Mode

1. After enabling the **Remote Mode**, click ☰ icon > [**Credentials**] to enter the Credentials.
2. Directly click the 📶 icon to swipe the card remotely within the valid range.
3. When the device beeps, the LED lights up red, and the interface prompts "Verication successful", it means that the card is swiped successfully.

Mode 2: Using Card Mode

1. After enabling the **Card Mode**, click ☰ icon > [**Credentials**] to enter the Credentials.
2. Click ▦ icon to open Mobile Credentials.
3. Hold your mobile phone close to the reader until you hear a "beep" and the LED lights up red, indicating that the card is swiped successfully.

ARMATURA