

Arvratesh Co.,Ltd.

RF Card Reader (T-40)

Usage guide



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01 | Best Security Solution Arvrtech Co.,Ltd.

product descriptions

1-1. product feature

- Using an access management system using a short-range network (LAN), UTP Cable and TCP/IP protocols it can be applied to the existing network , so it is easy to scalability, More reliability and faster speeds, as well as manage and monitor over the network
- It is possible to secure worker's work efficiency and safety, such as monitoring the user's location using Bluetooth. Easy and capable of implementing various functions
- It can be interlocked with a smart phone, and convenient entry / exit through proximity communication with a smartphone without a separate card (key). access Control functions can be implemented
- Support for various methods of operation depending on how access, absenteeism, and crime prevention are established.
- Touch Screen enables easy setup and management of equipment and speeds processing
- It has a built-in waterproof cap, so it can be installed anywhere regardless of the installation location.

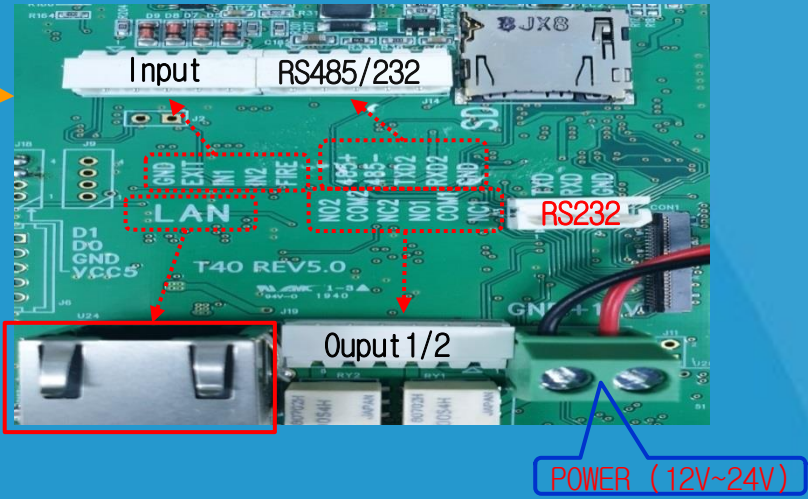
1-2. Product specifications

Sortation	Specification
CPU	Arm9 240Mh Nuvoton MPU + PIC 32Bit MCU (Dual)
OS	Embedded LINUX
LCD	4" TFT Color LCD / capacitance of capacitance Glass touch screen
Memory	64MB RAM + 128MB
Video/Cam	Not supported
Interface	USB Port 1
Sound	Speaker Voice Support
RF	13.56Mhz / Mifare Classic Compatible
BLE	unserviceability
Input / Output	4 input / 1 Lock ,1 Relay Output
Communication	LAN(TCP/IP Ethernet)
Power	DC 5 V
Size	157mmX68mm /Width : 23mm~35mm
Temperature	Reader :-25° ~ 50°C /5%
Humidity	5% ~ 90% Noncondensing relative humidity

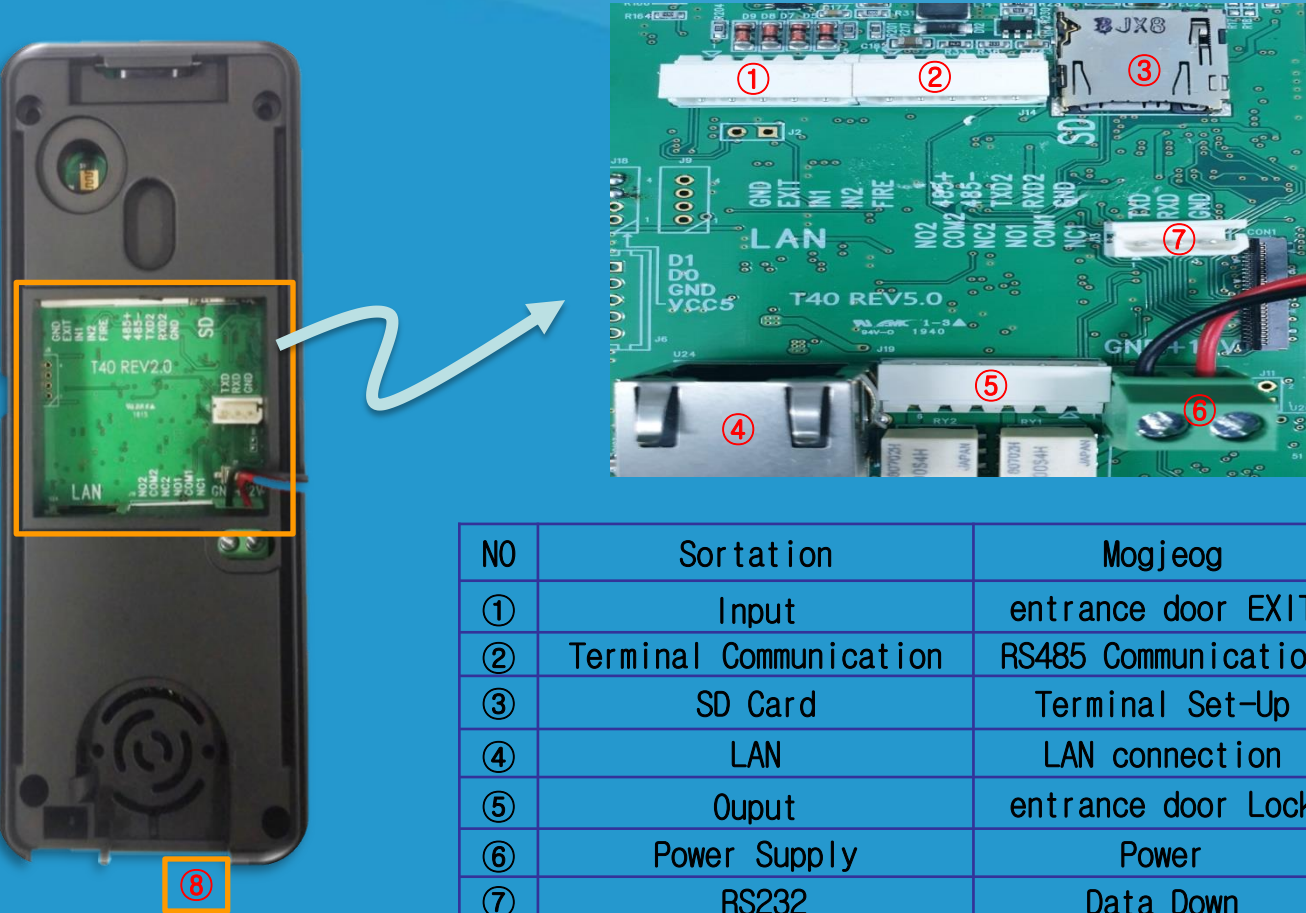
1-3. Terminal Detail Name



NO	Name	content	a remarks column
①	LED	Power	
②	LCD	All Actions status check	
③	Card Reader	RF Card Recognition	
④	Tamper Sensor	crime prevention Rock	
⑤	communication terminal	Data and Communications	
⑥	Speaker	Voice guidance	
⑦	USB terminal	Data Down	
⑧	power terminal	power supply	12V/300mA



1-4. Terminal Communication and Debug terminal functions



NO	Sortation	Mogjeog	a remarks column
①	Input	entrance door EXIT	
②	Terminal Communication	RS485 Communication	
③	SD Card	Terminal Set-Up	Debug Terminal
④	LAN	LAN connection	
⑤	Ouput	entrance door Lock	
⑥	Power Supply	Power	12v~24v
⑦	RS232	Data Down	Debug Terminal
⑧	USB	Data Down	Debug Terminal

Features and Configuration

2-1. function

N0	category	Function	a remarks column
1	broadcasting function	X	
2	digital amplifier	X	
3	crime prevention	Supported	
4	Power saving mode	Supported	
5	Low-Stage Surveillance	power monitoring, reset chip/Power display	
6	Watchdog function	Supported	
7	Disconnect RF Antenna	X	
8	update function	Network/USB/ Bluetooth /Updateable	
9	Operation mode	Speedgate, access control, locationtracking, fire reception, ipleader	
10	language support	a five-nation language (Korean, English, Escape year, Arabic, Chinese)	
11	Save Logs	a million cases	
12	Save Image Log	5,000	
13	File System Management	Supported	
14	certification method	Card, password, SAM	
15	Camera	Supported	Resolution: 1280x720(HD)
16	IP Phone(Video call)	Supported	
17	Save Image	Supported	
18	Smart Phone	Supported	
19	Bluetooth	Supported	Can be set on mobile phone
20	LCD	Touch Screen	
21	USB	Supported	

Features and Configuration

2-2. Configure Product Package



T-40
Terminal



Bracket



connecting cable
5Pin Input/6Pin Output/5Pin



fixed use
Screw



PVC
fixed anchor



Bracket
fixed use
Screw



rear waterproof cap



Diode

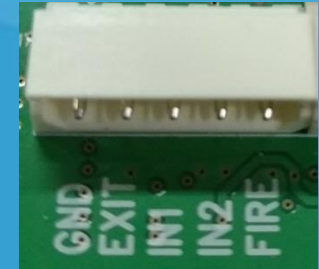
Features and Configuration

2-3. Configuring pinmaps and connections

- Input



Pin	Name	Color
1	GND	Purple
2	EXIT	Black
3	IN 1	Yellow
4	IN 2	Orange
5	IN 3 (1CH > Fire)	chestnut color



- Output(Relay)



Pin	Name	Color
6	NO 2 (Relay)	Green
5	COM 2 (Relay)	Yellow
4	NC 2 (Relay)	Black
3	NO 1 (Lock)	White
2	COM 1 (Lock)	Purple
1	NO 1 (Lock)	Red



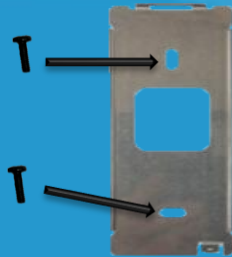
Installation environment

- Check the installation location by considering the following conditions, and obtain user consent if necessary.
 - ☞ This product is installed indoors in principle, and when installed outdoors, do not expose the terminal to direct sunlight, snow, or rain.
 - ☞ Connecting cables should not be exposed to the outside, and reclamation is recommended. If reclamation is not possible due to the installation environment, the user's consent must be obtained prior to installation. Please receive and install it.
 - ☞ Power shall be applied after all the wires are completed, and no wires shall be dismantled or further connected when the power is applied.
 - ☞ It can be used more efficiently by installing it at an appropriate height that is easy for users to use and at a location close to the door.

Installation and Setup

4-1. installation method

Bracket
fixed use



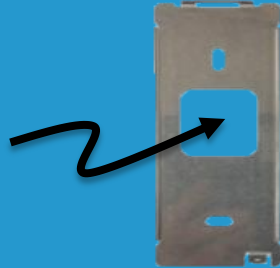
Metal bracket for
fixing wall parts

First stage

- Secure the metal bracket with a securing screw on the wall.



T-40
terminal



Second stage

- Clip the T-40 terminal onto the bracket fixed to the wall.



third stage

- Tighten the bottom of the T-40 terminal with the bracket and the set screw.

Installation and Setup

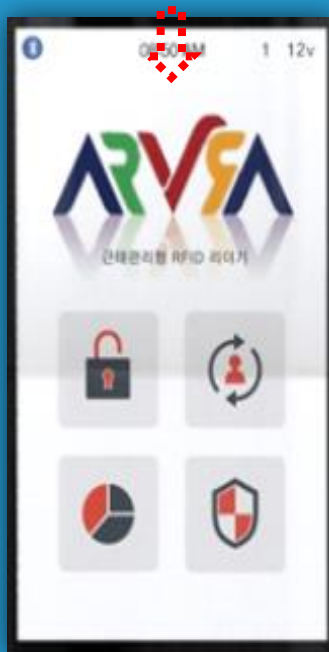
4-2. Setting method

Reader Default Settings

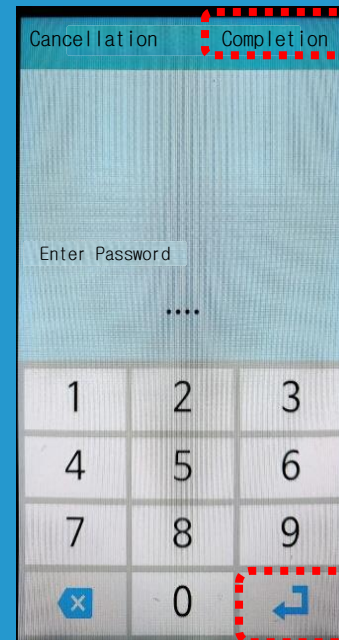
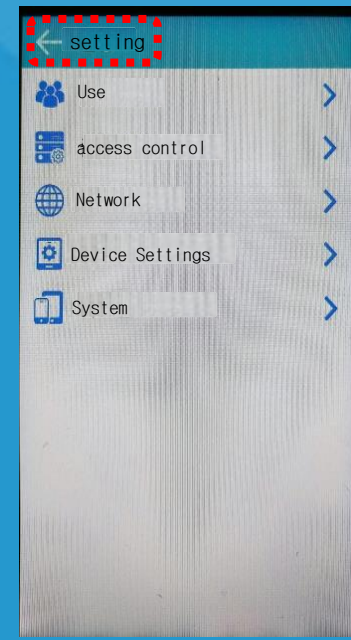
- The default setting can be automatically downloaded through the initial network master connection for the corresponding channel's device number, or the access control-related setting can be done by the reader after the network connection.

Reader Initial Menu

- Enter Menu and Use Touch / Touch Scroll Behavior 'Touch Tab Behavior'



screen slide

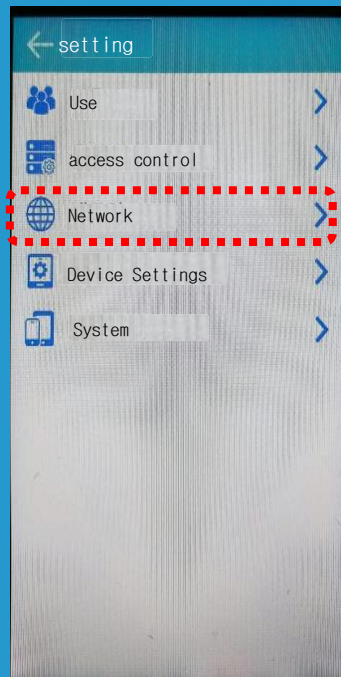
Screen Check
/Settings tabpassword '1111'
Enter TabInitialization Plane
upper '←' To go

Installation and Setup

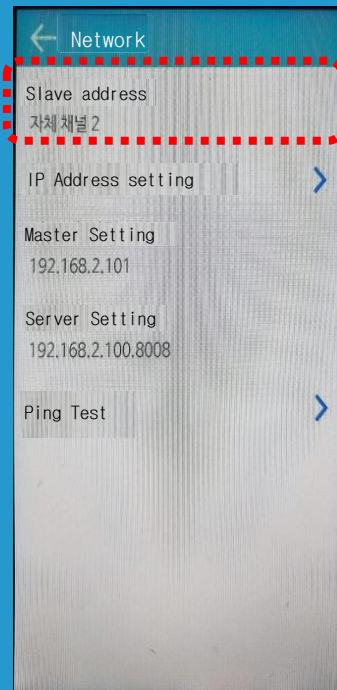
4-2. Setting method

■ Reader Network > Slave address

- The reader initially sets the instrument address (slave address) given by the master.



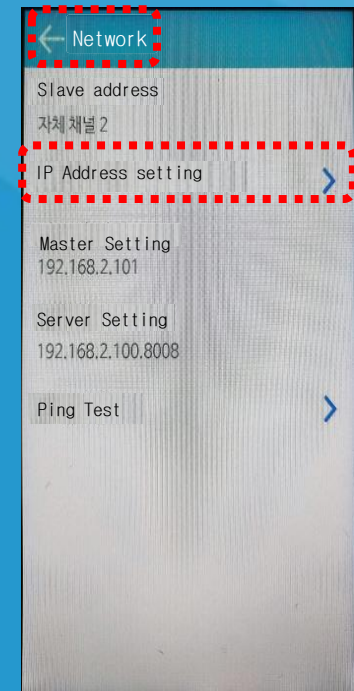
Network Setting



Slave address Setting



Slave address Setting
/ Save by tapping
Complete tab



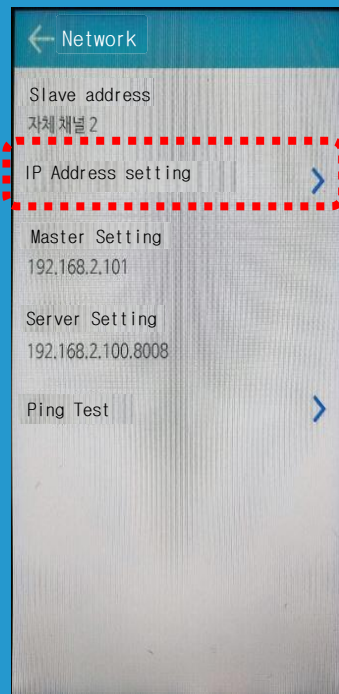
Leave previous step

Installation and Setup

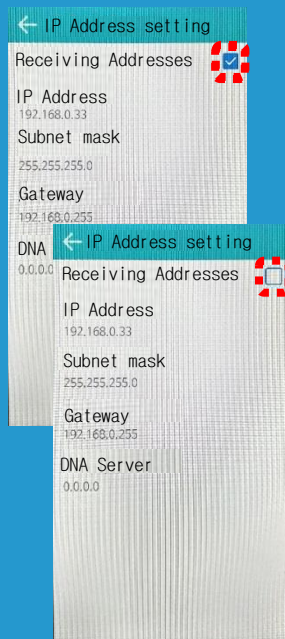
4-2. Setting method

■ Reader : Network > IP Address setting

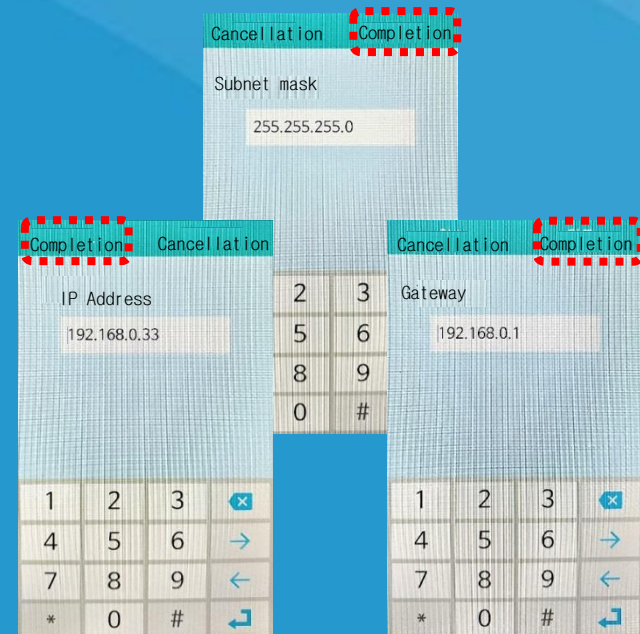
- The reader sets the assigned unique IP.



Network
IP Address setting



Receiving Addresses
Revocation
/ check/ Fixed IP
setting



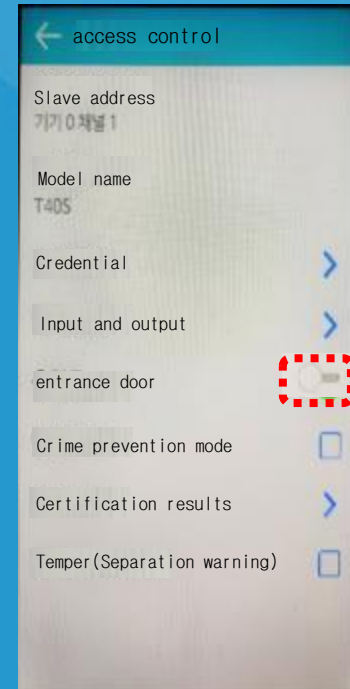
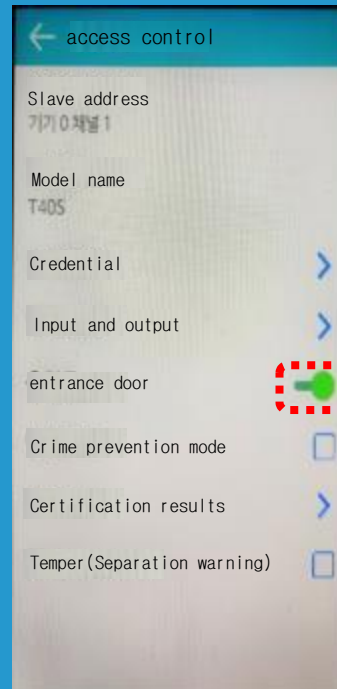
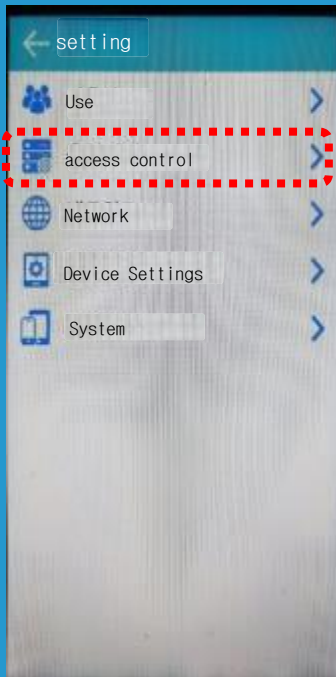
IP Address, Subnet mask, Gateway setting
/Tap in the address window to move the
cursor. /* = . Used

Installation and Setup

4-2. Setting method

■ Reader Door usage status (In/Out bidirectional selection)

- Depending on the installation environment of the leader, when installing the door in both directions, the leader inside the exit is determined not to use the door.



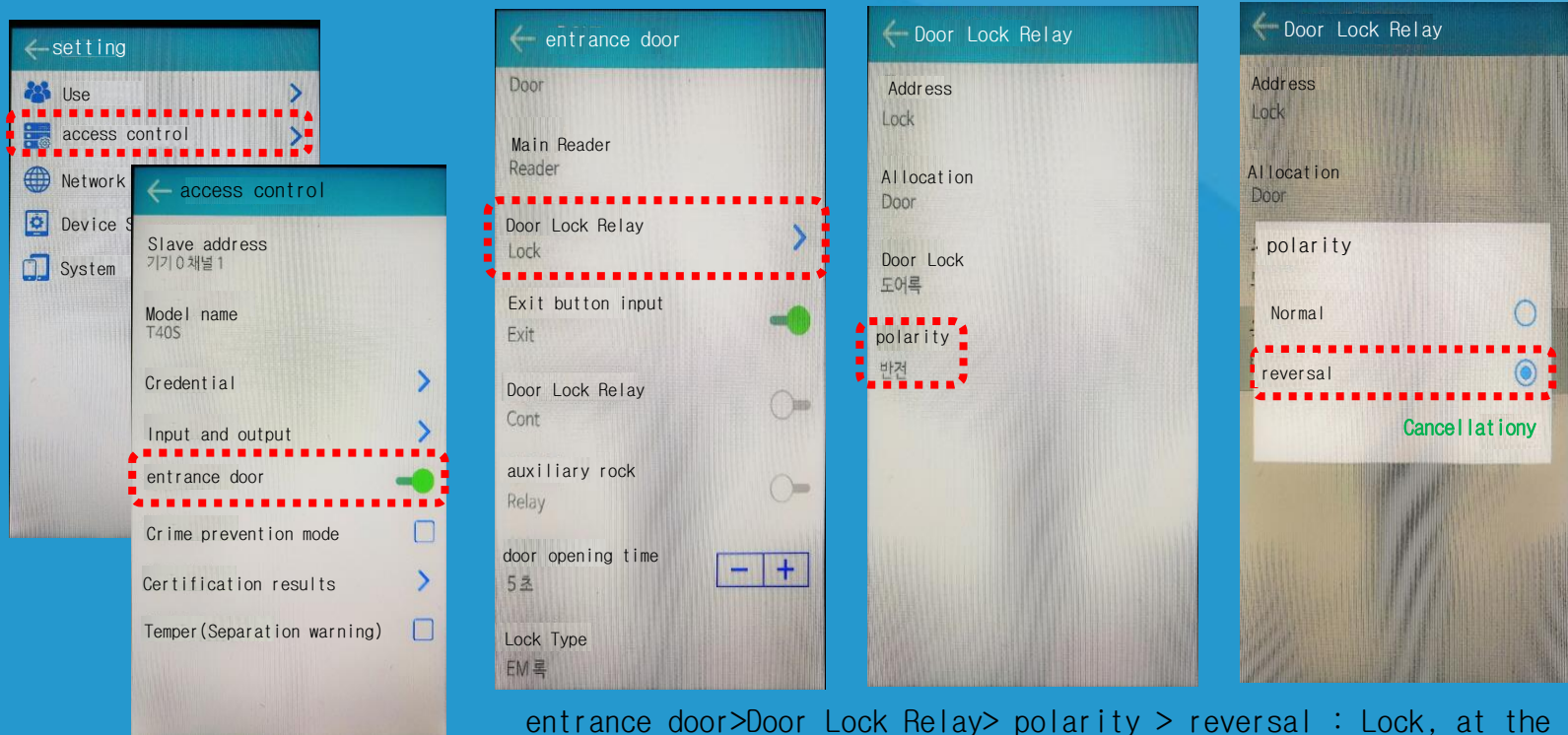
access control : ' entrance door ' Use on and off on the Switch tab to select whether or not to use..

Installation and Setup

4-2. Setting method

■ Reader Setting the door

■ Lock Relay polarity Setting

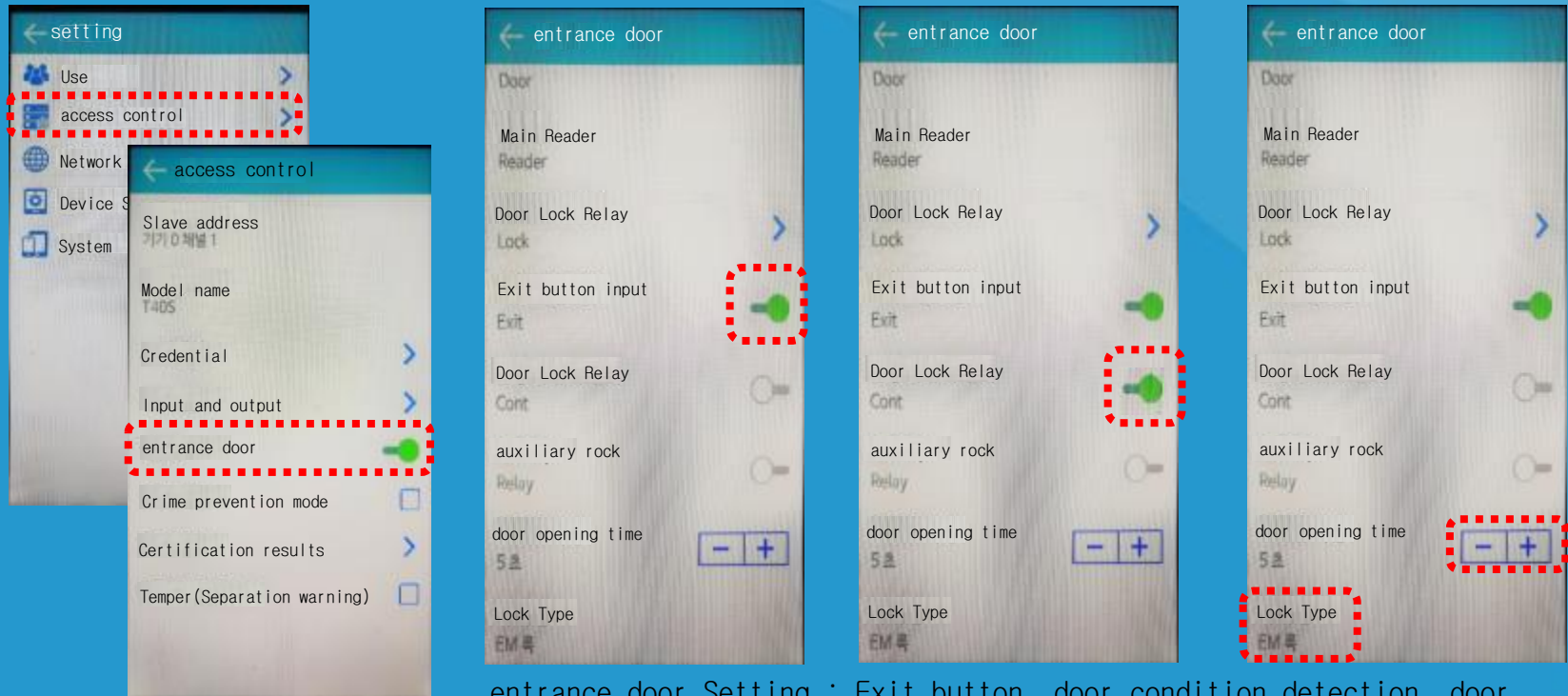


entrance door>Door Lock Relay> polarity > reversal : Lock, at the time of installation "NO" It's a runoff and turns the polarity of the leader into a reversal

Installation and Setup

4-2. Setting method

Reader entrance door Setting



entrance door Setting : Exit button, door condition detection, door opening time, lock type setting for door setting It's possible..

FCC Compliance Statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

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 correct the interference by one 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.