USER MANUAL

AT100

Version： ___1.0___

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2.1. Description of external port
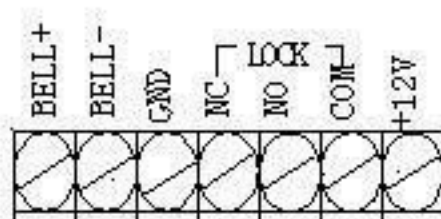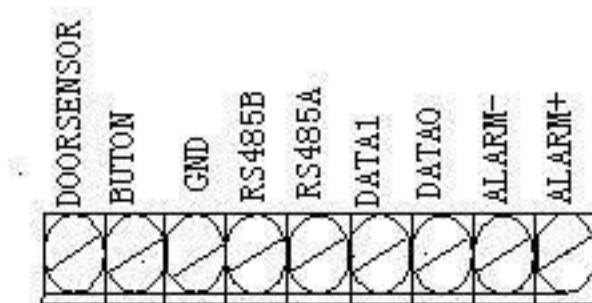
Combination mode of links:

1、 RS485 connection method—RS485A、RS485B

2、 connection mode of Wiegand—GND、DATA0、DATA1

3、 connection mode of the bell—BELL-、BELL+

4、 connection mode of OUT switch—BUTON、GND

5、 connection mode of door contact—DOORSENSOR、GND

6、 alarm connection mode—ALARM+、ALARM-

7、 connection line of the lock—LK-COM、LK-NO、LK-NC

2.1. Connection mode of lock and electric bell

1、connection mode of normally electrified closed lock

Power supply adapter 12V	+12V
	COM ┐
	NO ├ LOCK
	NC ┘
	ALARM+
	ALARM-
LOCK	GND
	COM ┐
	NC ├ BELL
	NO ┘
	BELL+
	BELL-
	5V
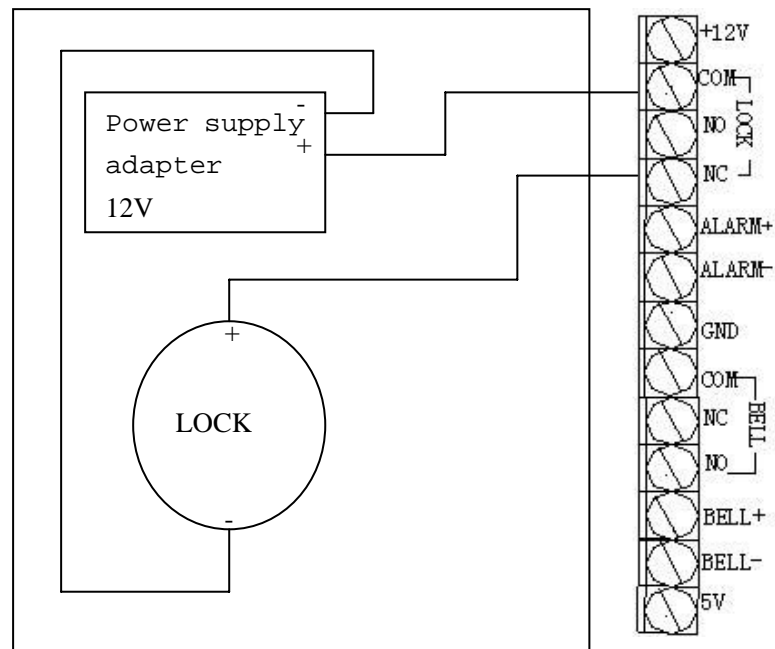
2、connection mode of normally electrified opened lock

Power supply adapter 12V	+12V
	COM ┐
	NO ├ LOCK
	NC ┘
	ALARM+
	ALARM-
LOCK	GND
	COM ┐
	NC ├ BELL
	NO ┘
	BELL+
	BELL-
	5V
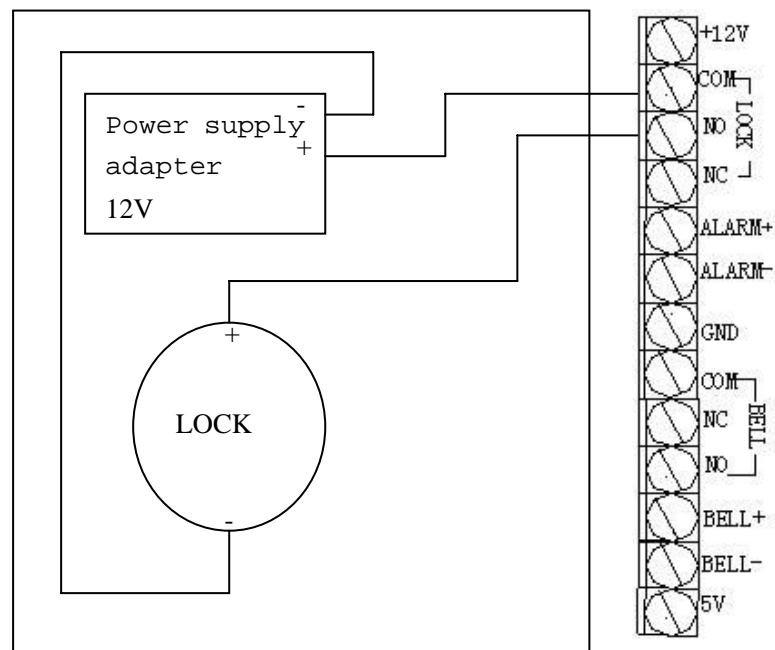
3. Keyboard explanation

AC 100 has five key-presses except power supply key-press, and the central key-press is the doorbell key-press. Moreover, the corresponding relationship between other key-presses is:

↑	↓	🔔	ESC	OK

Basic operation: OK may enter into the menu, ESC may back, ↑，⊥ may change values, there are 24 menu options in the system, use ↑，⊥ to choose specific menu.

4. Menu program

The first level menu	The second level menu
Enroll	fingerprint of user
	card of user
	management fingerprint
	management card

Delete (user)
Duress FP Set
Glog View
Slog View
Delete log
Identify Mode
Time set
Language
Managers
Machine ID
Baud 115200
password
Sensor Adjust
Auto off
Sleep
Menu T. out
Lock ctrl
Open Time
Door Sensor
Re-verify no.
Glog Wrn
Slog Wrn
Info View

```
Self Test
Restore Def
```

4.1 Enroll

Users in system are divided into two parts: administrators and the general users. After register administrator user in the system, start menu by pressing the OK button, then it requires a validation process to enter. Ordinary users are unable to open the menu through identification unless the system has not yet registered administrator. Therefore, for the sake of the security system, when user adds the first user, it should be registered as an administrator, and proposes manager should register at least two fingerprints.

@ User fingerprints: First of all, enter the ID number, user press fingerprint 3 times to complete the registration according to the interface prompts. The registered users are ordinary users.

@ User card: First of all, enter the ID number, and then brush on a card to complete registration. The registered users are ordinary users.

@ Administrator fingerprint: Firstly, enter the ID number, user press fingerprint 3 times to complete the registration according to the interface prompts. The registered users are administrators.

@ Administrator card: First of all, enter the ID number, and then brush on a card to complete registration according to tips. The registered users are administrators.

4.2 Delete (user)

Firstly, enter the ID number, use ↑ key，⊥ key to switch values, then press OK to confirm and delete user

Administrator may delete other administrators.

4.3 Duress FP Set

Press fingerprint according to tips may set this fingerprint as the duress fingerprint, only the registered fingerprint can be set to the duress fingerprint.

4.4 Glog View

Firstly, enter the ID number, use ↑key,⊥key to switch values, and then OK to determine that the user shall have how much numbers of attendance records, and then press OK will show the attendance records one by one, check it by use ↑key, ⊥key. Each record show the contents including number, ID, attendance type, time.

Enter the ID number is 0, means check sum of all user attendance records.

Enter other registered users ID to check with the total number of attendance records

4.5 Slog View

Firstly, enter the ID number, use ↑key,↓key to switch values, and then OK to determine that the user shall have how much numbers of management records, and then press OK will show management records one by one

Only inputting the registered administrator is valid

4.6 Delete log

There is a tip before delete records, choose OK to delete all records, including attendance records and management records.

4.7 Identify Mode

Currently supports two modes: fingerprint | cards and fingerprint + card, fingerprint | card is fingerprint or cards mode can open the door through any kind of certification. And fingerprint + card shall require to be certified in two ways at the same time to open the door.

4.8 Time set

After entering the setting interface, there are six input focuses, namely year, month, day, hour, minute, second. May press OK to switch these six focuses, use ↑key, ↓ key to change values, switching the last focus to return to the main menu.

4.9 Language

Supports Simplified Chinese, Traditional Chinese and English. System default is Simplified Chinese.

4.10 Managers

May set the maximum number of administrators, the default parameter is 5, maximum is 10. Minimum is 1.

4.11 Machine ID

Machines No. is used for identifying an attendance machine, the value of 0 ~ 255. This identification generally used to distinct among attendance machines when unite network, it also require to use this parameter during a time when connect communication. If it is a independent machine, this number can be set up randomly.

4.12 Baud 115200

When user uses the interface of RS232 to communicate, Baud rate is the velocity of communication interface. This rate can be configured to 5 kinds: 115200, 57600, 38400, 19200, 9600, the default setting is 115200bps

4.13 Password

The setting is used for password of upper computer communication, the password for the six-digit.

4.14 Sensor Adjust

This command is used to adjust the parameters of Identification. It requires to cover all collecting windows of fingerprint head before correct, then you can complete the rectification work by using this menu.

4.15 Auto off

Set time of automatic shutdown, the value is 0 ~ 255 minutes. When the time arrives, shut down automatically. The time set to 0 means to turn off the automatic power off function.

4.16 Sleep

Set automatic sleep time, the value is 0 ~ 255 minutes.

When the time arrives, shut down automatically. The time set to 0 means to turn off the automatic sleep function.

Press any key to wake up equipment under sleep state.

Dormancy: Set 1 minute. Automatic power off: set 2 minutes. The equipment comes into the dormant state and can not automatically shutdown.

4.17 Lock ctrl

This parameter set time length of opening the door by electric lock, the value range is 0 ~ 16s. Parameter is 0 means to close lock control output.

4.18 Open Time

This parameter set when to inspect door contact, the parameter range from 0~255s

4.19 Re-verify

use the parameter to set time of repeated confirmation, the parameters of the range of 0 ~ 255 minutes, there was only one incident will be recorded if open the door twice in this time.

4.20 Glog Wrn

When residual capacity of the attendance records is less than the parameter setting, the system will send warning signals to prompt the user that it requires to remove part of the attend.

4.21 Slog Wrn

When the capacity of the management of records is less than the parameter setting, the system will send warning signals to prompt the user that it requires to remove part of the management records. This parameter value is 0 ~ 255, the default parameter is 100.

4.22 Info View

In this menu the user can query the following 10 system information
@   user registration
@   management registration
@   fingerprint registration
@   duress fingerprint
@   ID card registration
@   attendance records
@   Management Records
@   manufacturers
@   version of fingerprint algorithm
@   firmware version

4.23 Self Test

In this menu, the user can self-inspect hardware functions of the system, inspect a total of 10
@   keyboard
@   buzzer
@   fingerprint identification
@   Flash
@   RS485_Tx
@   RS485_Rx
@   unlocking relay
@   alarming relay

@   Wiegand output
@   Wiegand input

4.24 Restore Def

You can restore your system to the parameters state of factory settings of by using this menu. Owing to use the menu shall lead to datum loss, so be very careful to use！！！

Restoring the factory settings means to restore device configuration, the registered users still exists.

5. Rapid operating instruction of AT100

5.1 Fingerprint registration

1. Press OK to enter into the main menu (require administrator to verify if you set)
2. Press OK to enter Enroll menu to enter the menu
3. Press OK to enter User FP menu
4. Prompts to press fingerprints 3 times, after succeed, Exit from ESC
5. And then press ESC again until back to the main interface, or wait for a few seconds to return to the main interface with no operation

5.2 User deletion

1. Press OK to enter into the main menu (require administrator to verify if you set)
2. Press ↓ arrow to select Delete menu
3. Press OK to enter the ID selection interface, using ↑key, ↓keys to select a specific ID
4. Press OK to delete, then prompts and press OK to delete

5.3 Language alteration

1. Press OK to enter into the main menu (require administrator to verify if you set)
2. Press↓until language of the ninth menu appears
3. Press OK to enter the amendment state, at this time, you can use ↑key,↓key to switch values
4. Press OK–back from the modified state, press ESC-back from the menu1.