

MagicPass7300

USER Manual V1.0



Class B device

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.

CAUTION : Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Hugenics Co., Ltd.

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6.1 Installation Notice

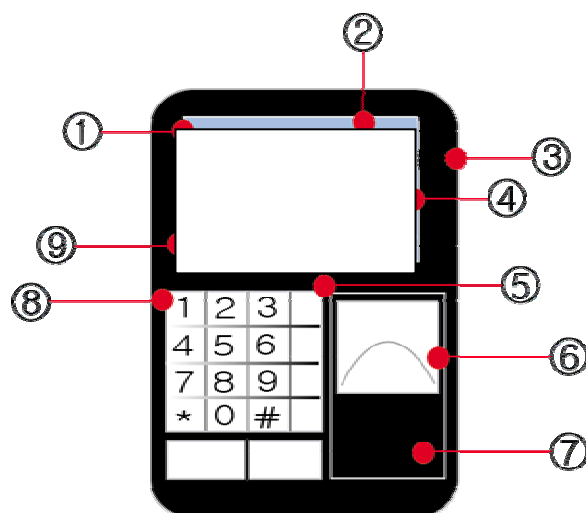
6.2 Troubleshooting

6.3 Fingerprint Registration Guide

7. Device Specification

1 Before Use

1.1 Device Part Names



No	Name	Function
1	Date Time	Date and Time shown in the Device
2	Operation Mode	Device operation status like Entering, attendance, leaving, going out, returning
3	Speaker	Device speaker
4	Main LCD	Displays Device operation status
5	Function Key	Keys for Set-up & Changing the mode like Entering, attendance, leaving, going out, returning With the up and down keys
6	Fingerprint Module	Fingerprint Identification
7	RF Card Reader Module	Card Identification
8	Number Keypad	Number Input
9	Company & Device model name	Company name and Device Model Name

2 Device Information

2.1 Magic Pass 7300 Introduction

2.1.1 MagicPass7300 is the very smart and versatile Fingerprint/RF Card Reader that can be widely applied for the division of Access Control, Time Attendance, Dining Number Counting, Membership Management, etc, which need the Self-Identification.

2.1.2 MagicPass7300 provides the optimal solution to the division of the Access Control, Time Attendance, Dining Number Counting, Membership Management, Students management, and etc., with the diverse I/O. Compact sized LCD, 12 Standard Key Buttons and 4 Function Key Buttons would provide the convenient and familiar User Interface as well. Furthermore 4 communication Ports(RS232 1port, RS485 2 ports, Wiegand 1 Port) and 2 Relay Signal Output(Lock Control), and 4 Outer Sensor input would give the users to enlarge the application scope.

2.2 Magic Pass 7300 Characteristics

- 2.2.1 Applied for Access Control Management, Time Attendance, Overtime Labor Management

The useful 4 Function Keys helps the flexible Time Attendance Management.

- 2.2.2 Either Stand Alone or connecting with the ACU(PC) is available.

MagicPass7300 could be used as stand alone or could be connected to ACU with the protocol of Wiegand/RS232/RS485. Additionally, with using the Free Bundle software included, direct connection(RS232/485) to the PC is possible.

Furthermore, the RTC and LOG Management Function(20,000 Traffic) enables the Access Control and Time Attendance Management without ACU.

3. USER Mode

When power on the MagicPass7300 Device, it displays as shown in <picture 1.>

At this status, the USER can be entitled to enter with the identification of the Fingerprint, card or the ID.



picture 1

3.1 Card USER

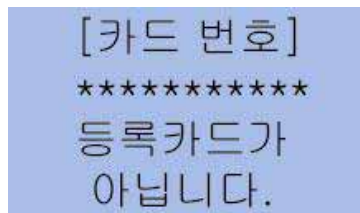


picture 2

1. Put the Card on the Card Reader Module of the Device

For the registered Card, there shows the Card Number and the message "Access Permitted" in the LCD with voice information. <picture 2>

2

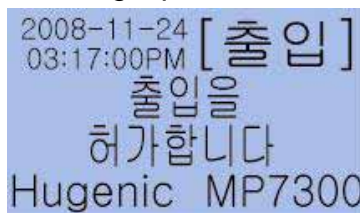


picture 3

2. For the un-registered card, there shows the Card Number and the message "Card Not Registered" with the voice information in the LCD.<picture 3>

3

3.2 Fingerprint USER



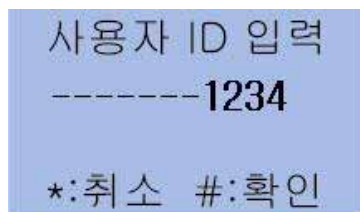
picture 4

Input the Fingerprint on the Fingerprint Module.

For the registered Fingerprint, there shows the message "Access Permitted" in the LCD with the voice information <picture 4>

4

3.3 ID USER

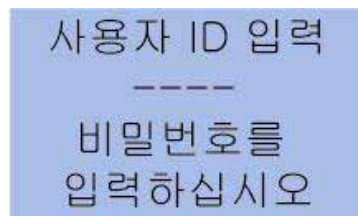


picture 5

Input the USER's ID and press "*" (Confirmation).

USER ID : 1~10 digits

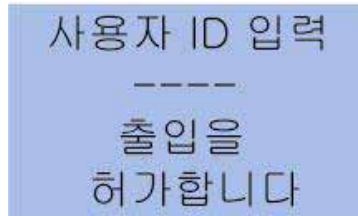
5



picture

Input the Password, and for the registered Password, there shows the message "Access Permitted" in the LCD with the voice information.<picture 7>

6



picture

Password : 4 digits

7

4. System Manager Mode

System Manager Mode is for the job Mode of USER Registration & Deletion, Set up. To enter into System Manager Mode, you should press "*" and "#" button in sequence.



picture 9

System Password Input

ver : xxxxxxxx
비밀번호를
입력하십시오

— — — —

picture 10

1 : 등 록
2 : 삭 제
3 : 조 회
4 : 설 정

picture 11

비밀번호가
맞지 않습니다

picture 12

Input the Manager Password which is already registered.

The System Password in Factory is "1234".

For the valid Password, the Management Sub-Menu as shown in picture 11, displays in the LCD.

For the invalid Password, there displays the message "Password is not Correct" as shown in picture 12 in the LCD

4.1 USER Registration

1 : 등 록
2 : 삭 제
3 : 조 회
4 : 설 정

picture 13

1. Registration – ID, Card or Fingerprint Registration
2. Deletion – Deletion of the Registered USER
3. Reference – Reference of the Registered USER
4. Set up – Device Environment Set up Device

1 : 카드 등록
2 : 지문 등록
3 : 카드+지문등록
4 : 번호 등록

picture 14

1. Card Registration
2. Fingerprint Registration
3. Card + Fingerprint Registration
4. Number(Password) Registration

4.1.1 Card Registration

[카드사용등록]

카드번호 입력
취소 : *key

picture 15

Put the Card to be Registered to the Card Reader Module of the Device.

[카드사용등록]

카드 등록을
성공하였습니다

picture 16

When completed, there shows the Message “Card Registration is successful” in the LCD.(continuous registration is possible.)

4.1.2 Fingerprint Registration

[지문 사용 등록]

사용자 ID 입력
*:취소 #:확인

17

Input the ID Number to Register and Press “#”.



[지문 사용 등록]
첫번째 지문을
입력 하십시오
[Step #1/3]

18

Input the Fingerprint to Register on the Fingerprint Module of the Device.



[지문 사용 등록]
지문을
입력 하십시오
[Step #2/3]

Input the same Fingerprint once more..



[지문 사용 등록]
지문을
입력 하십시오
[Step #3/3]

Input the same Fingerprint once more.



[지문 사용 등록]
지문등록사용자
등록 성공
[Step #3/3]

Inputting 3 times of the same Fingerprint, the Fingerprint Registration is completed.



[지문 사용 등록]
두번째 지문을
등록하시겠습니까
*:취소 #:확인

picture 20

If you want to register another Fingerprint, press
“#”(confirmation).

For 1 ID, it is possible to Register 2 Fingerprints.
Numbers(1 or 2) of Fingerprint(to Register) could be
set up in Set up Mode.

4.1.3 Card+Fingerprint

Registration

[카드+지문 등록]

카드 번호 입력
취소 : *key

picture 21

Put the Card to the Card Reader Module of the Device.



[카드+지문 등록]
첫번째 지문을
입력 하십시오
[Step #1/3]

picture 22

Input the Fingerprint to Register onto the Fingerprint Module of the Device



[카드+지문 등록]
지문을
입력 하십시오
[Step #2/3]

picture 23

Input the same Fingerprint Once More.



[카드+지문 등록]
지문을
입력 하십시오
[Step #3/3]

picture 24

Input the same Fingerprint Once More.



[카드+지문 등록]
지문등록사용자
등록 성공
[Step #3/3]

picture 25

When inputting the same Fingerprint 3 times,
Card + Fingerprint Registration is completed.



[카드+지문 등록]

두 번째 지문을
등록하시겠습니까

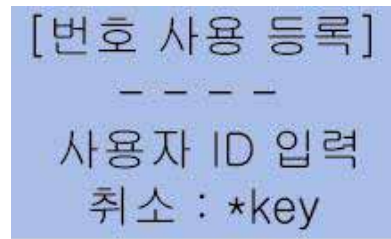
*: 취소 #:확인

If you want to register another Fingerprint, press
“#”(confirmation).

For 1 ID, it is possible to Register 2 Fingerprints.

Numbers(1 or 2) of Fingerprint(to Register) could be
set up in Set up Mode.

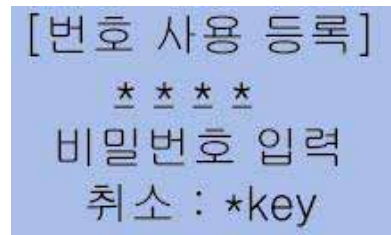
4.1.4 ID Number Registration



picture 26

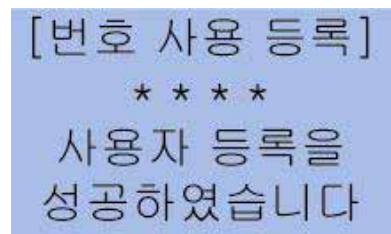
Input the ID Number to Register, press “#”.

USER ID : 1~10 digits



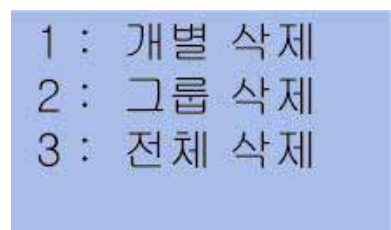
picture 27

After inputting the ID Number to register, and press “#”, then the ID Number Registration is completed.



picture 28

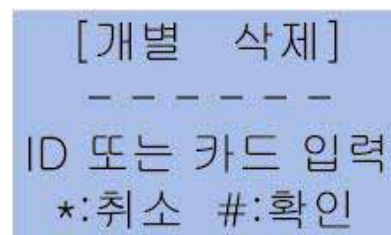
4.2 USER Deletion



picture 29

1. Individual Deletion – Individual ID Deletion
2. Group Deletion – Group ID Deletion
3. General Deletion – Whole Register ID Deletion

4.2.1 Individual Deletion



picture 30

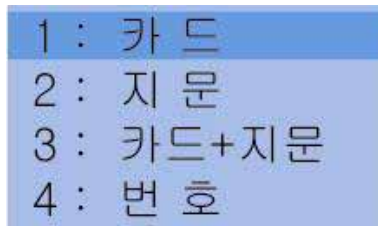
This step is To delete the Individual USER.

Input the ID Number to Delete or Put the Card to Delete, press “#” , then the deletion is completed..

[개별 삭제]
* * * * *
삭제가
완료되었습니다

picture 31

4.2.2 Group Deletion



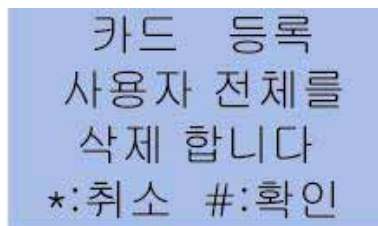
picture 32

There are four Groups as below

1. Card
2. Fingerprint
3. Card + Fingerprint
4. ID Number

Among them, you can delete some Group

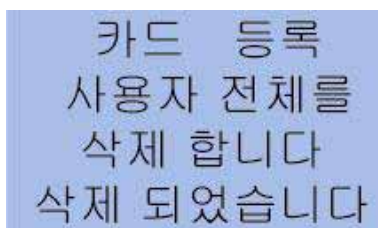
Ex) If you want to Group 1. Card Group, select 1 Card in this step.



picture 33

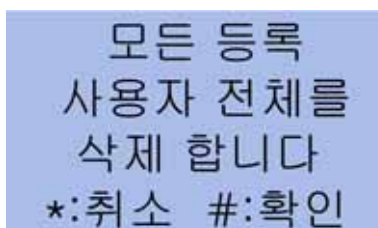
Then there shows the message "All Card USER registered would be deleted" in the LCD.

Press "#" for Deletion, or if you want to cancel it press "*".



picture 34

4.2.3 General Deletion

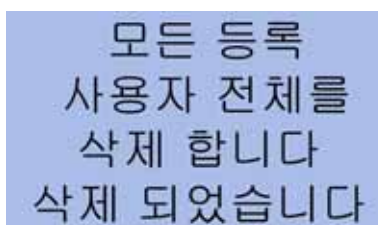


picture 35

To delete all USERS registered.

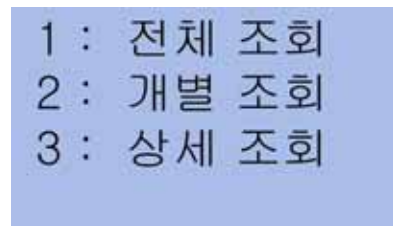
When you select "General Deletion" there shows the message "All registered USERS would be deleted" in the LCD.

Press "#" to delete, press "*" for cancellation.



picture 36

4.3 USER Reference



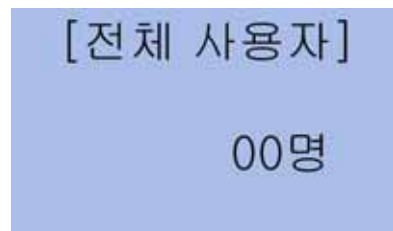
picture 37

1. General Reference – All Registered USER Reference

2. Individual Reference – Individual USER Reference

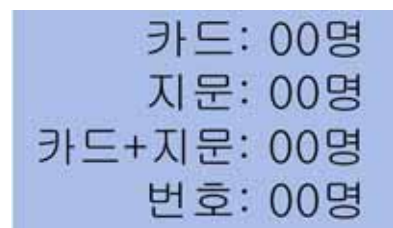
3. Detail Reference – USER Reference according to the Registration Turn

4.3.1 General Reference



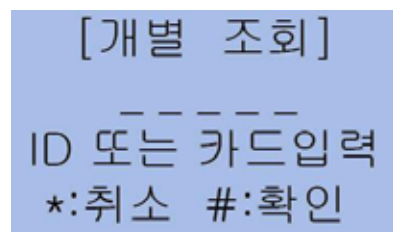
picture 38

The total Registered USER Number and Group USER Number could be referred at this stage.



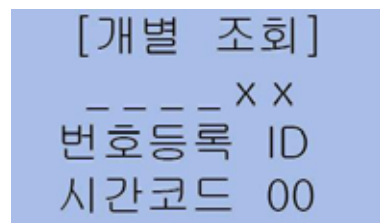
picture 39

4.3.2 Individual Reference



picture 40

Input the ID number or put the card to refer.



picture 41

Individual USER validity could be referred at this step.

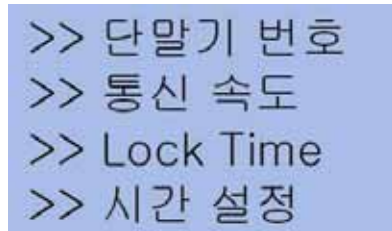
4.3.3 Detail Reference

[상세 조회]
F1:Prev F2:Next
xxxxxx TC 00
번호등록 ID

picture 42

Every Individual USER could be referred one by one
“F1” key and “F2” key could be used for the
Previous USER and Next.

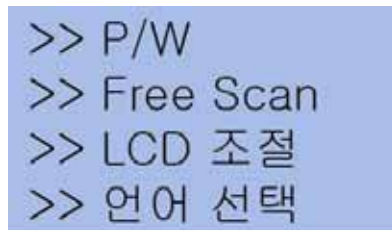
5. Device Environment Set up



>> 단말기 번호
>> 통신 속도
>> Lock Time
>> 시간 설정

picture 43

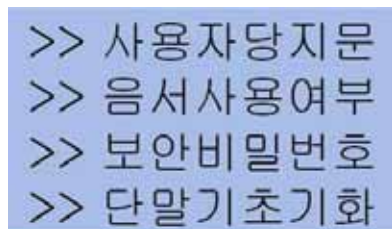
- >> Device Number – Unique number of the Device
- >> Communication Speed – Speed Set up
- >> LOCK TIME – Lock Time Set up
- >> Time Set up – Device Time Set up



>> P/W
>> Free Scan
>> LCD 조절
>> 언어 선택

picture 44

- >> Password – Password Set up
- >> FREE SCAN – Fingerprint Automatic Recognition Set up
- >> LCD Control – LCD Light Set up
- >> Language Selection – Language Set up

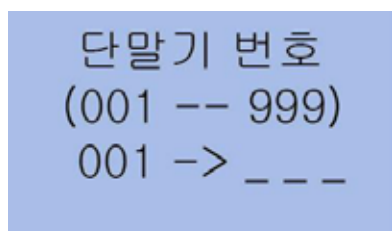


>> 사용자당지문
>> 음서사용여부
>> 보안비밀번호
>> 단말기초기화

picture 45

- >> Fingerprint Number per USER Set up
- >> Voice Information Validity Set up
- >> Security Password – Special Set up for the Security Service Company Related
- >> Initialization of the Device – Deletion of all the Data transacted.

5.1 Device Number Set up



단말기 번호
(001 -- 999)
001 -> _ _ _

picture 46

Select "Device Number " .

In the set up step, input the Number wanted..

Any number between 001~ 999 is available, and when installing multiple units of the Device, it is necessary set up the Device Number, otherwise, there would be communication troubles.

5.2 Communication Speed Set up

통신 속도
1:9600 2:19200
3:38400 4:57600
1 -> _

picture 47

Select "Communication Speed".

Set up the communication speed with the PC at this step.

Basic Speed is 19200.

5.3 LOCK TIME Set up

Lock Time
(01 -- 99)
01 -> _ _

picture 48

Select "LOCK TIME" .

Set up the Locking Time of the connected Electrical Lock at this step.

Any number between 01 ~99 Seconds is available

5.4 Time Set up



picture 49

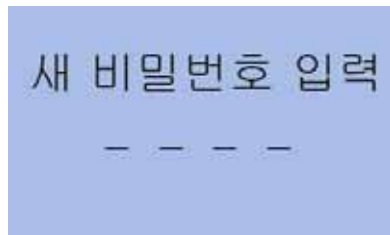
Select “Time Set up”.

Set up the Date & Time at this step.

Date Set up

0:Sunday 1:Monday
2:Tuesday 3:Wednesday
4:Thursday 5:Friday
6:Saturday

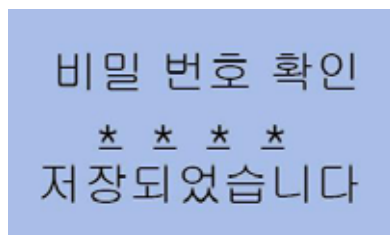
5.5 Password Set up



picture 50

“Password” Selection.

At this step, input the new Password of the Device.



picture 39

Input the new Password once more at this step.

Initial Password is “1234”.

5.6 FREE SCAN Set up



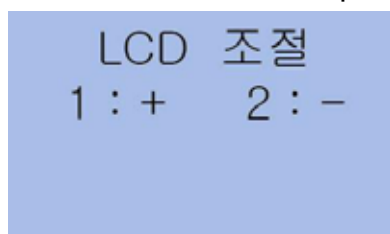
picture 40

“Free Scan” Selection .

At this step, select 1(Enable) or 2(Disable)

free scan is automatic Fingerprint Identification Function when inputting the Fingerprint on the Fingerprint Module of the Device.

5.7 LCD Control Set up



picture 41

“LCD Control” Selection.

At this step, you can select 1(Brighter) or 2(Darker) of the LCD Brightness.

5.8 Language Selection

언어 선택
1: Kor 2: Eng
1 -> _

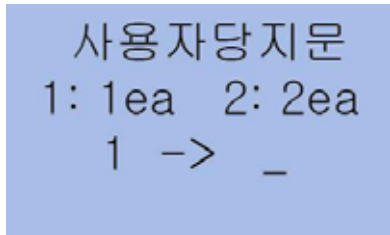
picture 42

“Language Selection” .

At this step, you can select the Language.1(Korean)
or 2(English) is available.

Basic set up is Korean

5.9 Fingerprint Number per USER Set up



picture

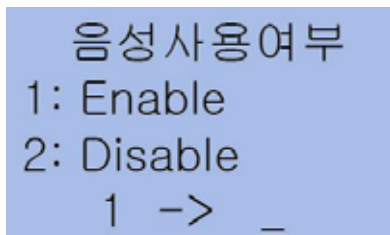
43

“Fingerprint Number per USER” selection.

At this step, you can set up the Number of the Fingerprint of each USER by selecting 1 or 2 key Button.

If you register 1 Fingerprint per ID, 2000 USERS could be registered, and if you register 2 fingerprints per ID, 1000 USERS could be registered.

5.10 Voice Information Availability Set up



picture

44

“Voice Information Availability Set up” selection.

At this step, you can select

1. Enable
2. Disable

6. Installation Notice & Troubleshooting

6.1 Installation Notice

- Change the System Password.
The Initial Password of the MagicPass7300 set in Factory "1234" which is the same for every unit, It is not safe enough if not changing the System Password.
- MagicPass7300 is designed to use indoors, and if you need to install outdoors, It should be specially protected from the Rainy Circumstances.
- When installing MagicPass7300, please be careful for the Shortage, Ground connection, and related Electric Damage or Shock.
- When disassembling the Device or damaging the Device, there would be possible Electric Shock, it is necessary to get the Advice of Maintenance Department of the manufacturing company.
- The manufacturer is free from the Artificial and intended Breakdown.
- Reinstallation or changing the installation place also needs to get the advice of the Maintenance Department of the manufacturer.
- When installing, the Lining in the hole of the wall is most reliable.

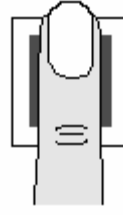
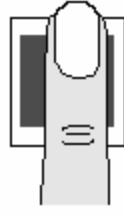
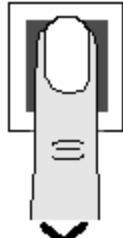
6.2 Troubleshooting

When the Device does not work properly, please initialize according to the Initializing Process, and try again from the beginning.

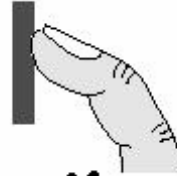
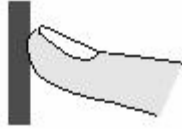
Please contact the Maintenance Department if it still does not work with the above troubleshooting.

6.3 Fingerprint Registration Guide

Finger Positioning



Fingerprint Input Range



7. Device Specification

7.1 Device Composition

- 1 MainBoard
- 1 LCD Module
- 1 Fingerprint Identification Module(OPTION)

7.2 Power

- Voltage
 - +12V DC with $\pm 30\%$ tolerance, less than 150mVp-p ripple voltage
- Currency
 - Stand by : average 120mA
 - Maximum : average 150mA

7.3 Environment

- Temperature and Humidity
 - Working Temp: 0 to 60
 - Preservation Temp: 0 to 60
 - Working Humidity : 0% to 90%
 - Preservation Humidity: 0% to 90%
- Static Electricity
 - 0~4KV Contact Discharge: No unrecoverable error
 - 0~8KV Natural Discharge: No user detectable error

7.4 Interface

- 1 RS232 port: full duplex
 - Communication Speed 4800~115200bps
 - Communication Variable : no flow control, 1 stop bit, 8 data bits
 - Max Communication Distance is followed to the RS232, RS485 Regulation
- 1 Wiegand Port (with ACU interface)
 - Max Transmitting Range : 150m

7.5 Relay

- 2 Relay Out (COM, NO, NC)

7.6 USER Capacity

- Max 20,000 ID

7.7 Log Data Capacity (log entry)

- Max 20,000 transaction

7.8 Size

- Mainboard: 88 mm(W) X 130 mm (H)
- LCD Module : 59 mm (W) X 50 mm (H)
- Fingerprint Module: 50 mm(W) X 30 mm (H)
- 95mm(W) X 140 mm(H) X 35mm(D)

7.9 Weight

- 300g

7.10 Identification Time

- Average under 1sec.

7.11 Function Key Button

- 12 Normal Function Key + 6 Special Function Key

7.12 Display

- 3 LED: Red, Green, Orange
- 1 LCD: 128 X 64 pixel(Graphic Type)