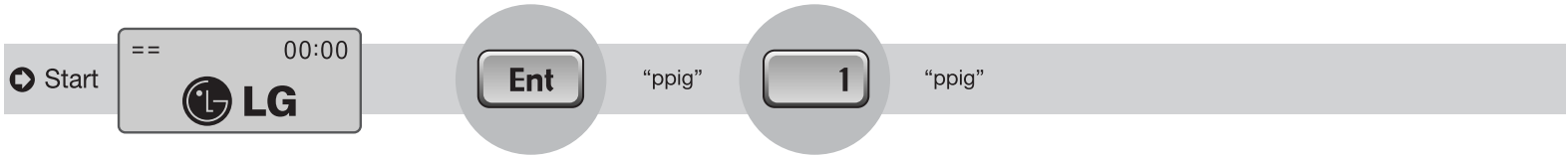
3. Environment settings

3.3.2. Delete User



Press [Ent] for over 2 sec. to enter main menu.

Press [1] to register a new user.

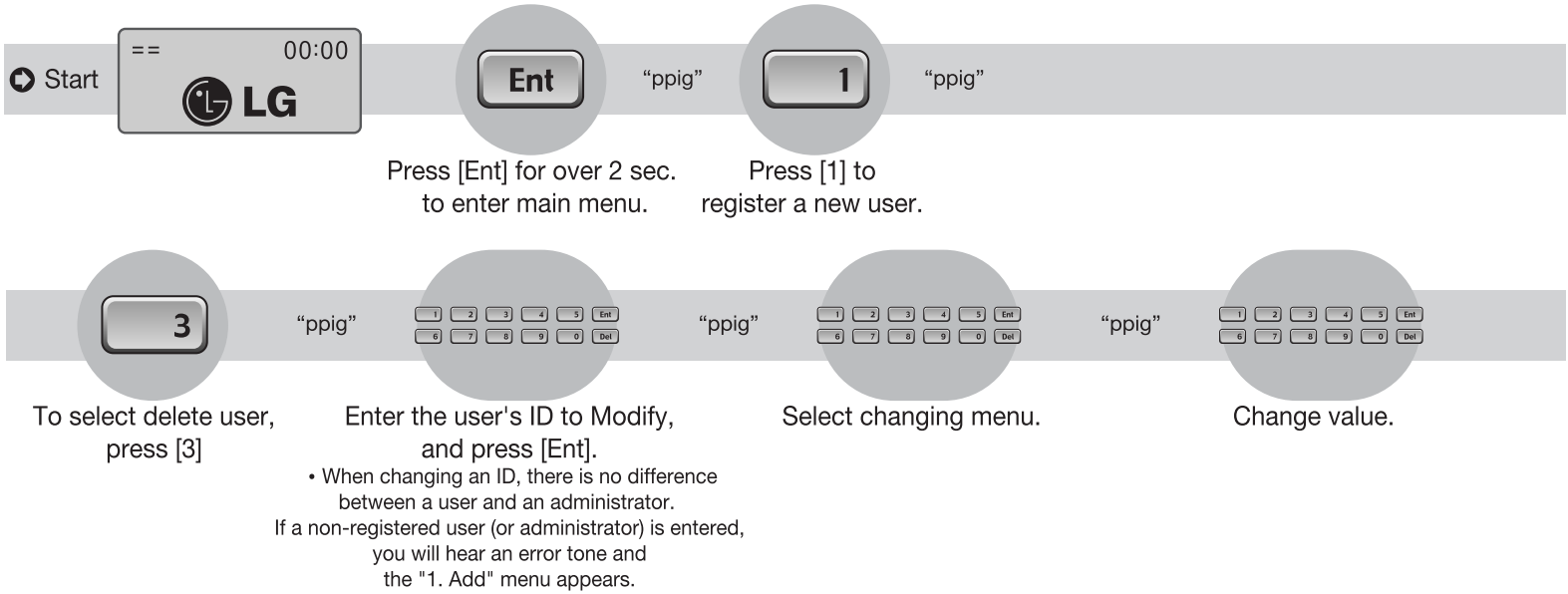
To select delete user, press [2]

Input user ID to delete and press [Ent].

- After entering the user ID to delete, press [ENT] you will hear three short beeps and all the information about the user is deleted. However, the information is still stored in the server. To completely delete this information, the data in the server shall also have to be deleted.
- If a non-registered user ID is entered, °∞2.Delete°± appears together with an error tone.
- Caution is required when deleting a user or an administrator. The user just registered in the unit (not in the server) is not recoverable, so special care is required.

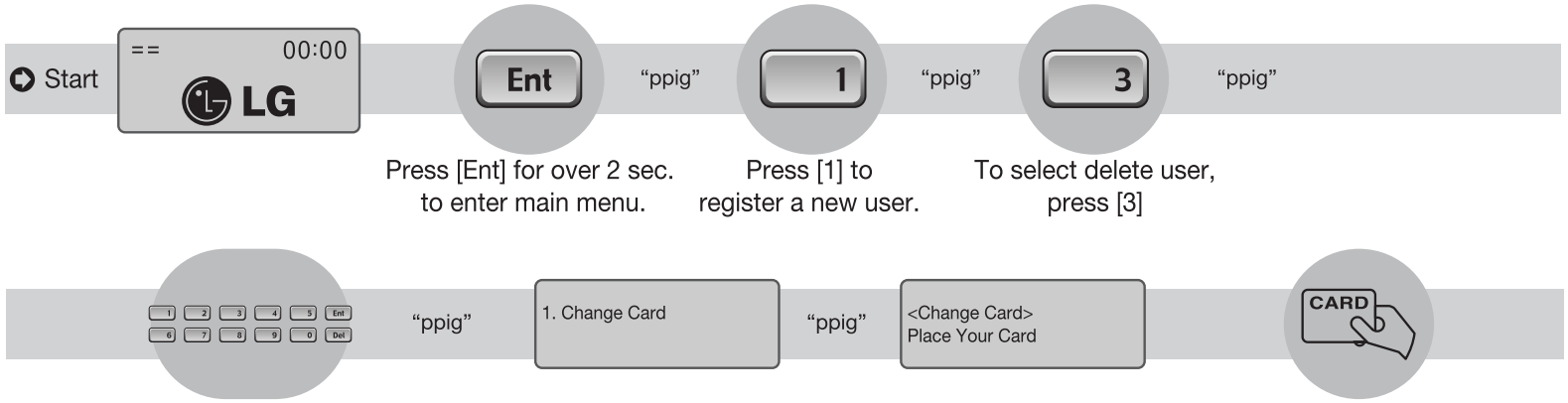
3. Environment settings

3.3.3. Modify User



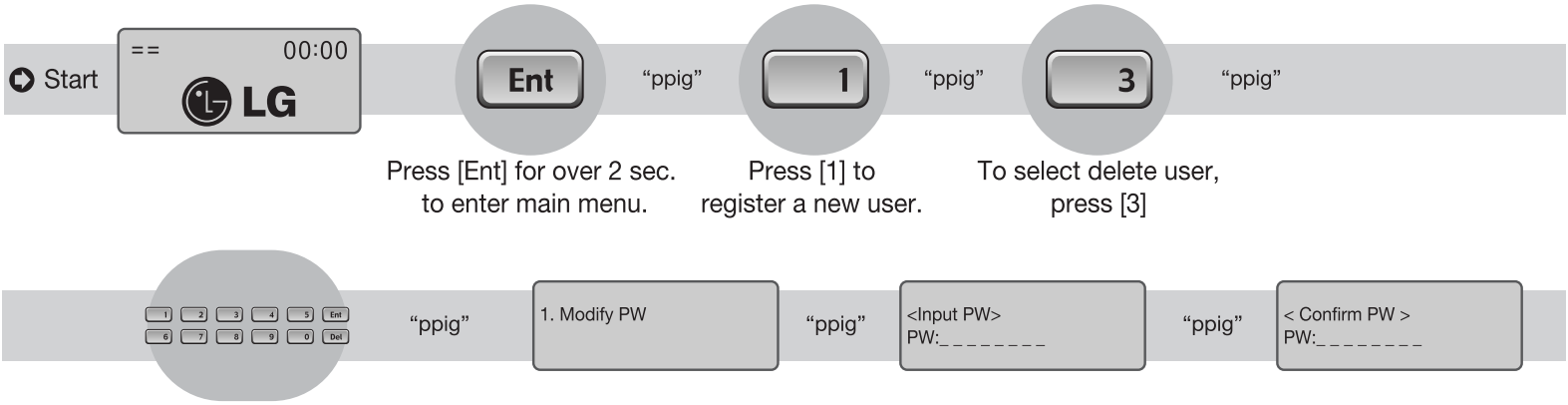
3. Environment settings

3.3.3.1. “1.RF” user



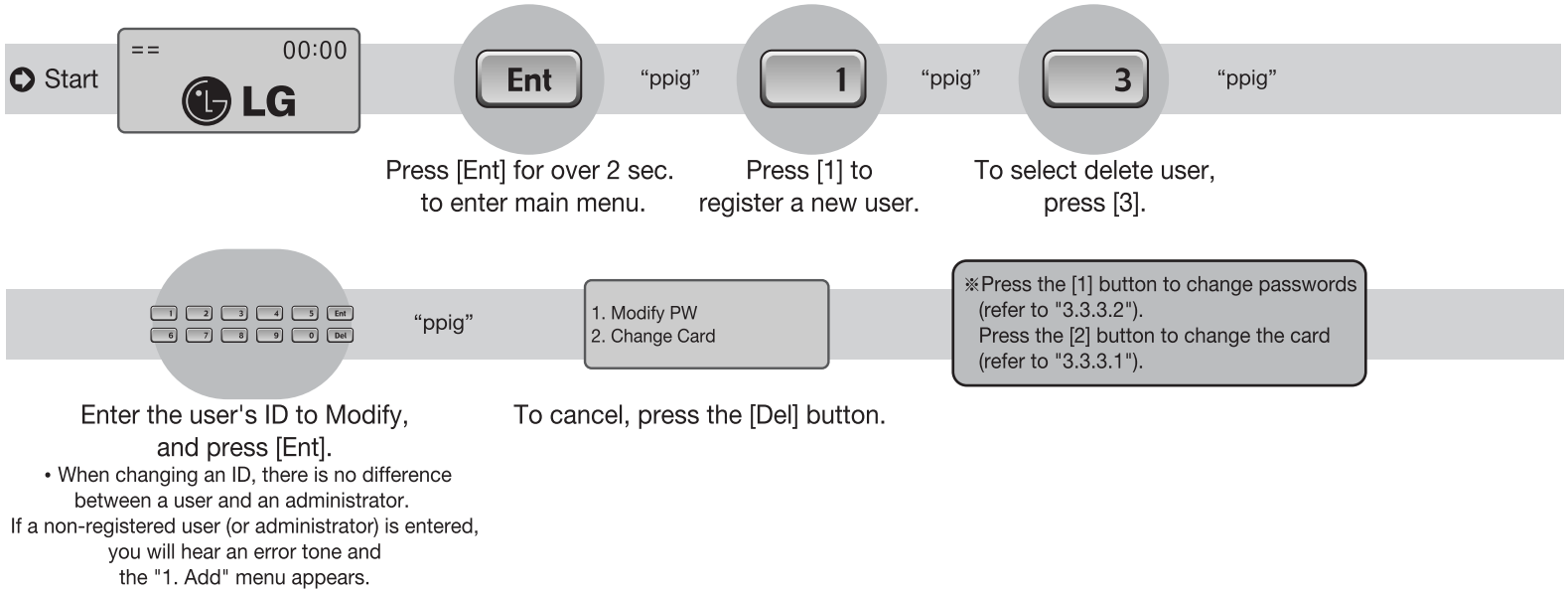
3. Environment settings

3.3.3.2. “2.ID&PW” user



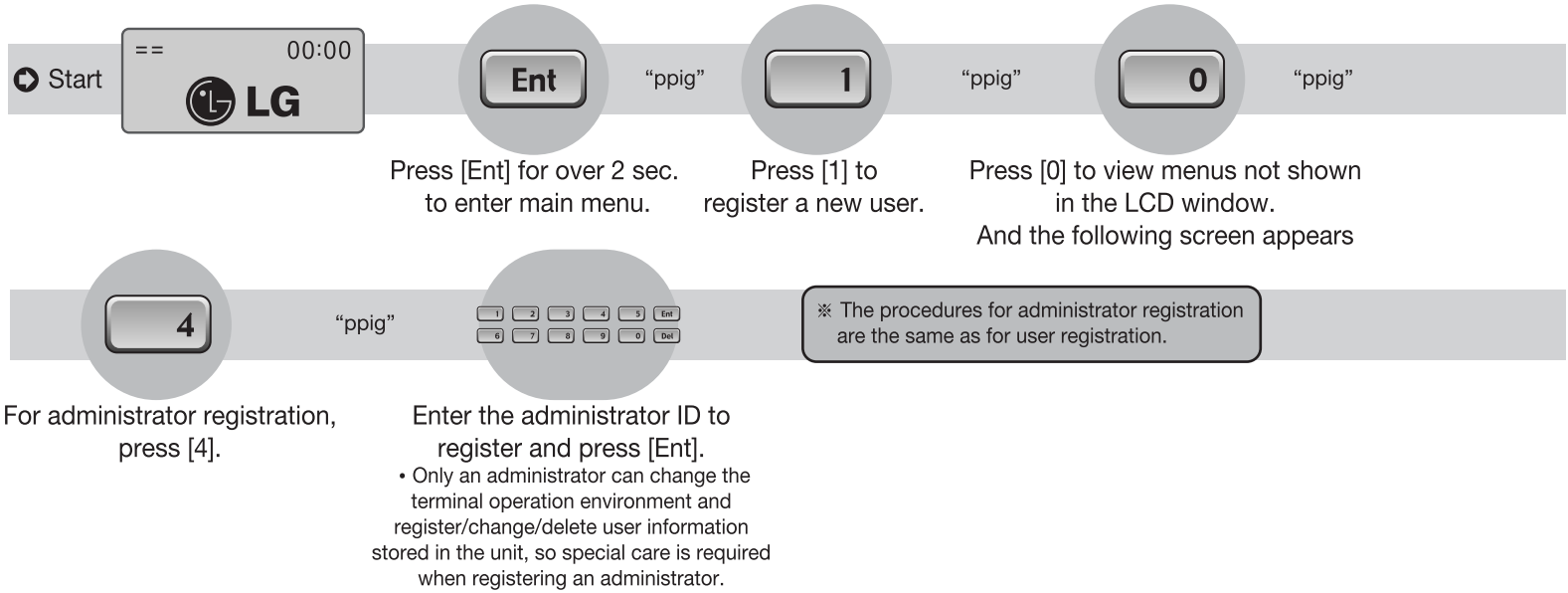
3. Environment settings

3.3.3.3. “3.RFIPW” , “4.RF&PW” , “5.ID&PWIRF&PW” user



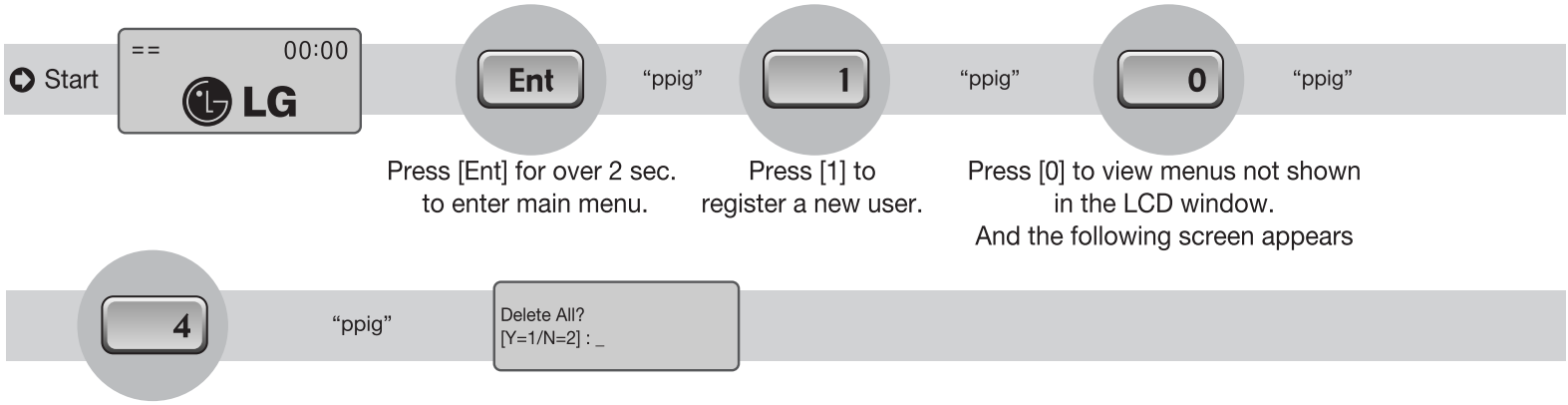
3. Environment settings

3.3.4. Administrator registration



3. Environment settings

3.3.5. Delete All Users



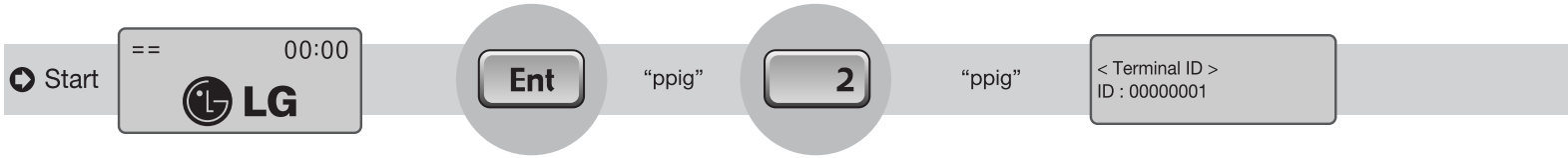
3. Environment settings

3.4. Network settings

In the main menu, press [2] to select "2.Network" to see the following screen. When the setting is chosen, press [Ent] to move to the next setting.

1. User registration
2. Network settings
3. Option settings

3.4.1. Terminal ID settings



Press [Ent] for over 2 sec. to enter main menu.

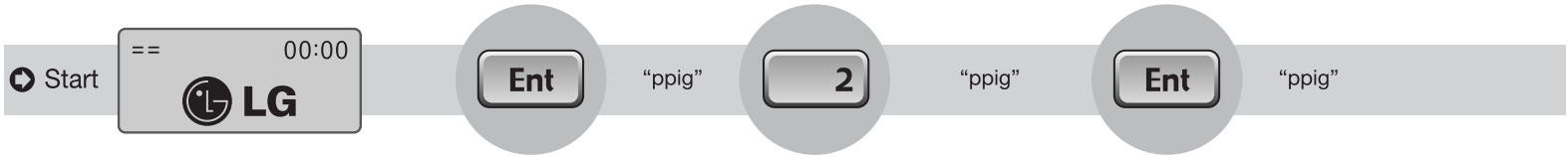
Press [2] to network settings.

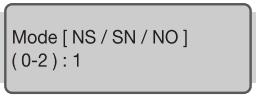
This ID is unique for each terminal and used by an authentication server to distinguish each terminal.
The default is '00000001'.
It should be identical to the door ID set in the server program, and its length should be 1~8 characters.

• If the terminal ID is '1000', enter [1][0][0][0] in sequence.
If it is '0001', enter only [1]. Press [ENT] to move to the next setting.

3. Environment settings

3.4.2. Connection [NS / SN / NO] mode settings



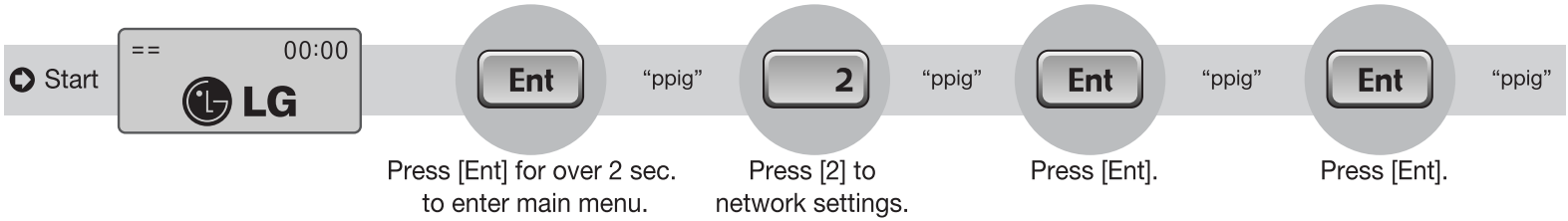


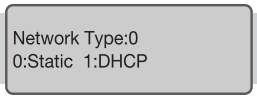
NS mode : '0', SN mode : '1',
NO mode : '2'

- This defines the authentication method between the terminal and network server, and the default is '1' (SN). Each authentication method is described below
  - NS mode: select [0]. When there is a live connection to the server, authentication is done through the server. If not, it is done through the terminal.
  - SN mode: select [1]. Even though there is a live connection to the server authentication is done through the terminal and the result is forwarded to the server in real time. However, in the case of 1:1 authentication, if the entered user ID is not registered in the server, authentication is done through the server.
  - NO mode: select [2]. Even though a user is registered in the terminal, authentication is done through the server in any event.
- Depending on the number of terminals, the number of users, or network conditions, each different mode can be used flexibly, but if there are more than 10 terminals connected to the server for simultaneous authentication or there are frequent network problems, it is recommended to use SN authentication (setting '1').
- Press [ENT] to move to the next setting.

3. Environment settings

3.4.3. Connection method settings





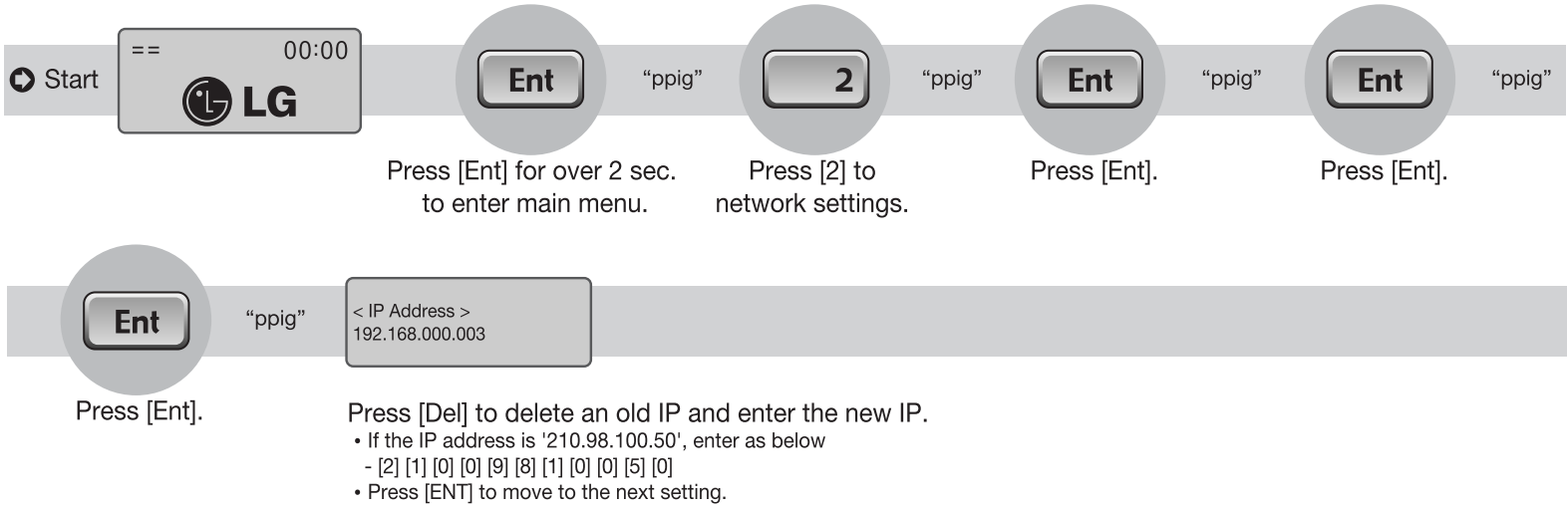
Press [0] for Static IP.
Press [1] for DHCP.

- The default is '0' (Static IP). If a fixed IP is assigned to the unit in a network, press [0]. If there is a DHCP server in the network to which the unit is connected, press [1].
- Press [ENT] to move to the next setting.

※For Static IP (0), refer to 3.4.4. IP address, 3.4.5. Subnet mask and 3.4.6. Gateway. For DHCP, skip those sections.

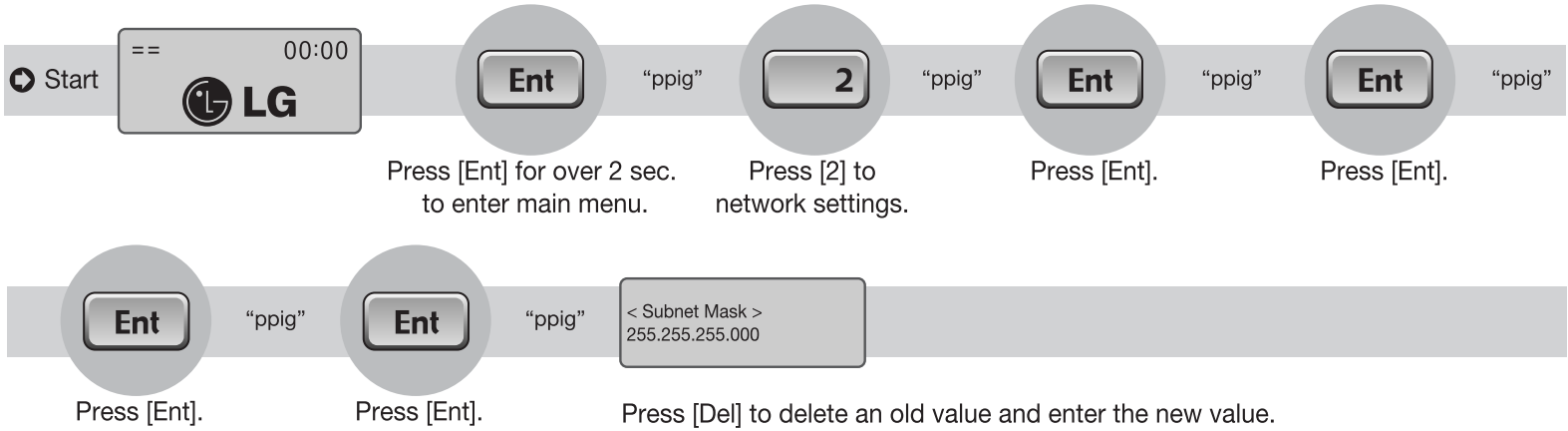
3. Environment settings

3.4.4. IP address settings



3. Environment settings

3.4.5. Subnet mask settings

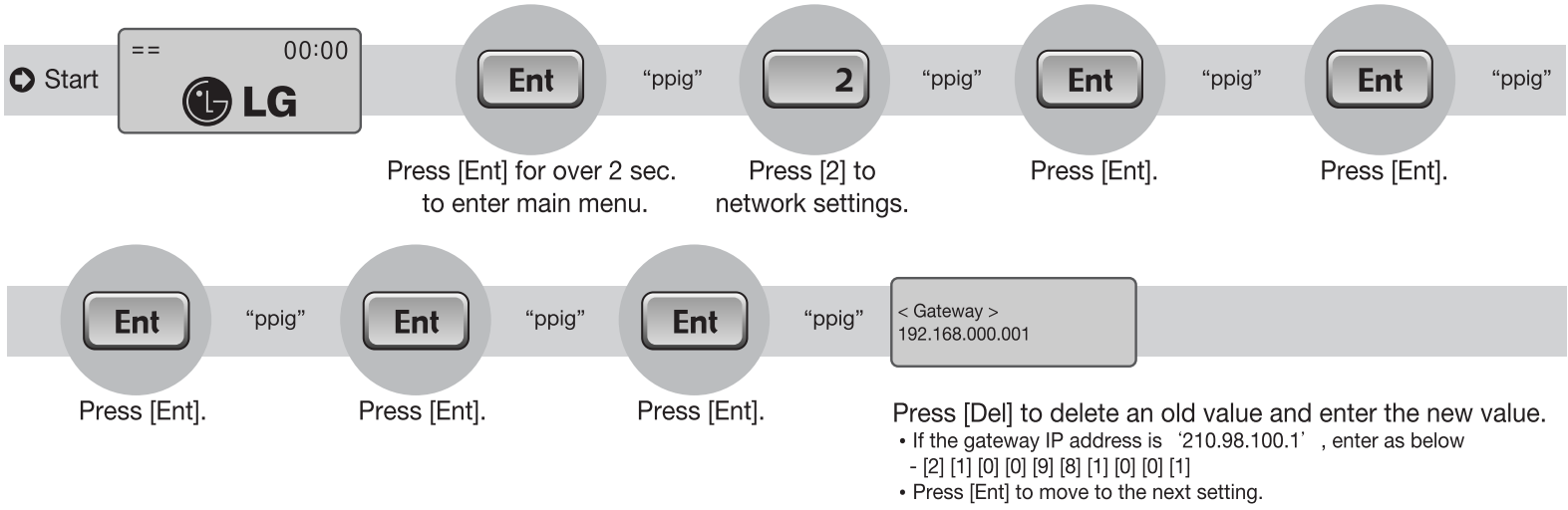


Press [Del] to delete an old value and enter the new value.

- If the subnet mask is '255.255.255.0', enter as below
  - [2] [5] [5] [2] [5] [5] [2] [5] [5] [0]
- Press [ENT] to move to the next setting.

3. Environment settings

3.4.6. Gateway settings

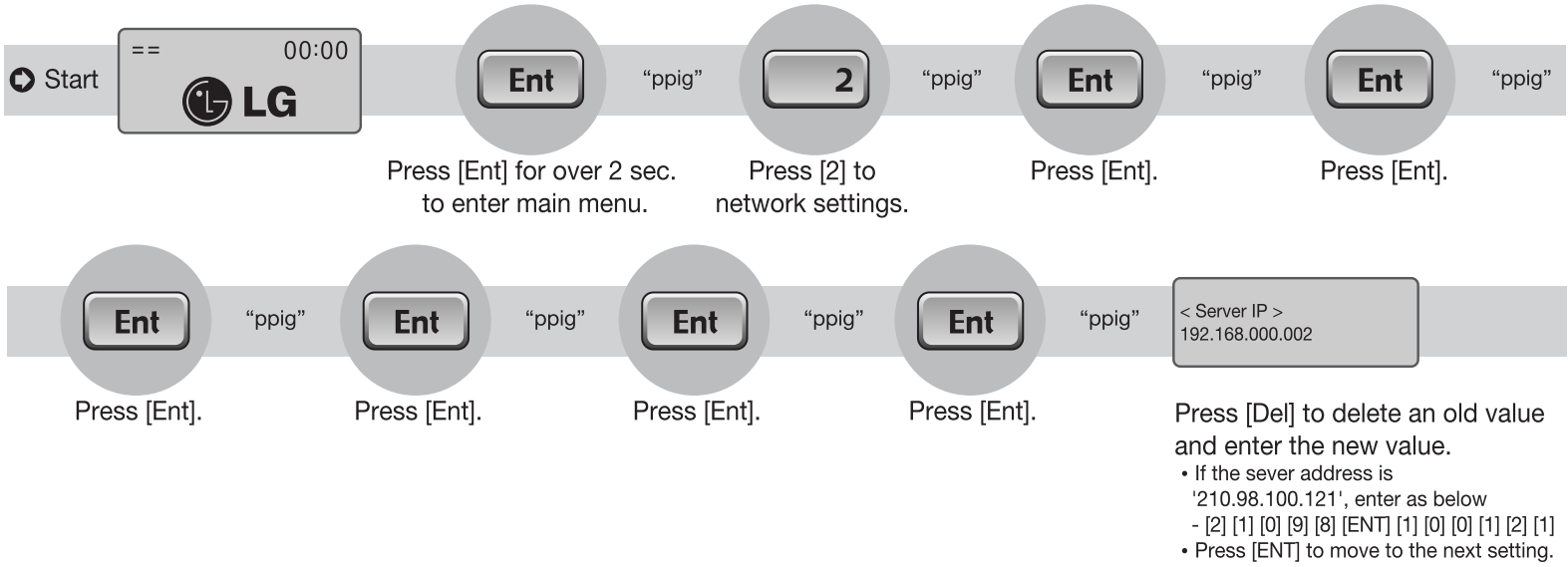


Press [Del] to delete an old value and enter the new value.

- If the gateway IP address is '210.98.100.1', enter as below
  - [2] [1] [0] [0] [9] [8] [1] [0] [0] [1]
- Press [Ent] to move to the next setting.

3. Environment settings

3.4.7. Server IP settings

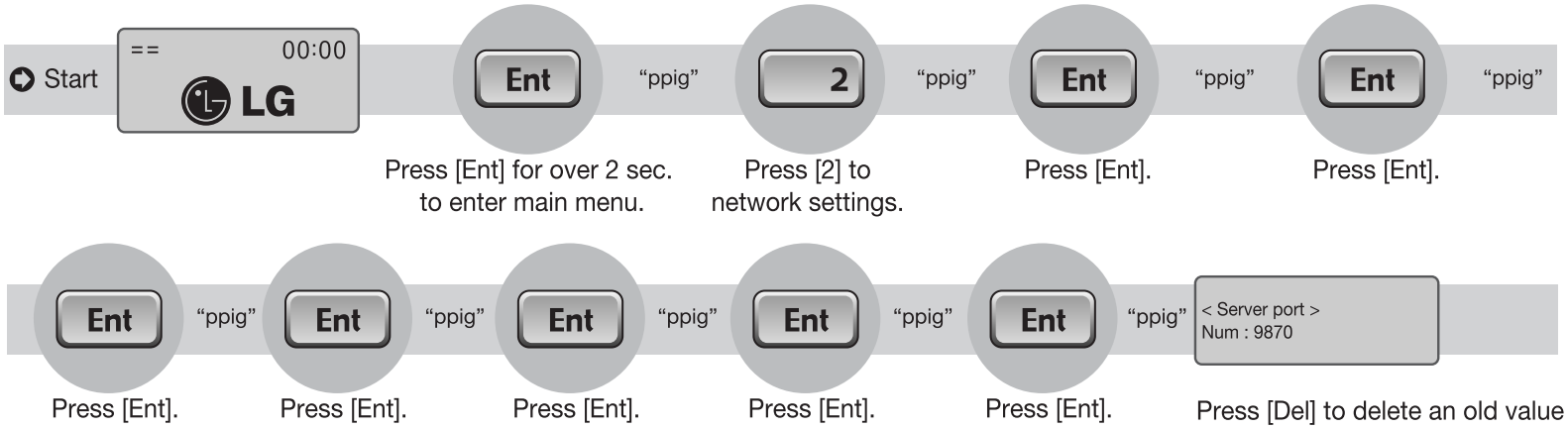


Press [Del] to delete an old value and enter the new value.

- If the sever address is '210.98.100.121', enter as below
  - [2] [1] [0] [9] [8] [ENT] [1] [0] [0] [1] [2] [1]
- Press [ENT] to move to the next setting.

3. Environment settings

3.4.8. Server port settings



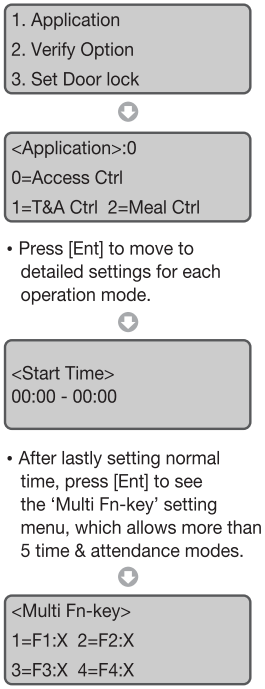
Press [Del] to delete an old value and enter the new value.

- As the port number of the authentication server, the default is '9870'. Special care is required when changing this number because the corresponding number in the server should also be changed.
- If the server port is '9870', enter as below - [2] [2] [0] [1]
- Once the network setting is complete, press [Ent] to return to the main menu.

3. Environment settings

3.5. Option settings

3.5.1. Application mode settings



Default screen ⇨ [Ent] ⇨ [3] ⇨ [1]

- The default is '0=Access Ctrl'
- For access control application, set as '0'. For time & attendance, set as '1'.

3.5.1.1. [0] Access Control

- No more detailed settings. It moves to the upper menu.

3.5.1.2. [1] Time Attendance control

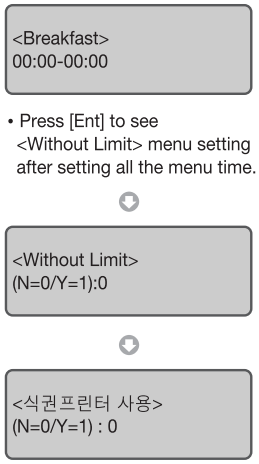
- By setting up those default times regarding Start/Leave/Out/Back, the terminal display mode after authentication can be automatically changed to programmed time & attendance mode. In addition, by using multi-Fn key, over 40 sub modes of time & attendance can be defined.
- If time setting is not necessary, set as '00:00-00:00'
- To change the start time from '00:00~00:00' to '06:00~09:59', press [Del] to delete the existing setting time, and enter [0] [6] [0] [0] [0] [9] [5] [9] in sequence.
- As long as no other function button is pressed during the setting time, it operates in start time mode. Even if the authentication for outside work (Out) happens by pressing [F3] function key, the terminal display mode after the authentication of outside work is automatically changes to start time mode, which is very convenient for users in time & attendance mode.
- After setting <start time>, set <leave time> and <normal time> in the same manner. Note that each time must not overlap. Ex.)start time : '06:00~09:59', leave time : '17:00~22:00' and normal time : '10:00~16:59'.

Multi Fn-key

- Default setting: all 'X'
- This menu is useful when more than 5 time & attendance modes are necessary.
- When setting as 'X' : each function key represents a specific working mode such as F1=Start, F2=Leave, F3=Outside work (out) and F4=Back. When a function key is pressed, authentication mode is changed to the corresponding working mode.
- When setting as 'O' : a mode is defined by the combination of a function key and a number key such as 'F3+1'. For example, if the setting is 1=F1: X 2=F2: X 3=F3: X 4=F4: O, 14 different working modes can be defined according to user input such as [Ent]: normal, [F1]: start, [F2]: leave, [F3]: outside work(out), and [F4]+'0' ~ [F4]+'9'.
- The O/X setting can be changed by pressing the corresponding number key. After setting is completed, press [Ent] to move to the upper menu.

3. Environment settings

3.5.1.3. [2] Meal (Cafeteria) Service control



- If time setting is not necessary, Set as '00:00-00:00'.
- If <Breakfast> time is set from 07:00 to 09:00, all authentication data is recorded as <breakfast>.
- After setting <Breakfast> time, continue to set <Lunch>, <Dinner>, <Supper> and <Snack> with same manner.
  If some menu is not necessary, set as '00:00-00:00'.
- Each menu time shall not be overlapped. User can authenticate only one time during same menu time.
- If user has to authenticate more than one time, he/she has to authenticate fingerprint after <Ent> button is pressed.
- 'Terminal Locked' message will be displayed during an interval time between each <Menu> setting time.
  Nobody can authenticate until the terminal is locked except entering a menu mode.

3. Environment settings

3.5.2. Option settings for authentication

1. Application
2. Verify Option
3. Set Doorlock

Default screen ➪ [Ent] ➪ [3] ➪ [2]

- To set the basic option for authentication, press [2].

3.5.2.1. Settings for ID display when authentication is successful

<Show User ID>
(N=0/Y=1):0

- Press [Ent] to move to the next setting.

- Default setting : '0'
- If it is set to the default setting '0', only the 'Success' message is displayed. If it is set to '1', user ID is displayed in the LCD window when authentication is successful as shown below:
  (Ex.) OK! <0001>

3.5.2.2. Auto enter key setting

<Auto Enter Key>
(N=0/Y=1):0

- Press [Ent] to move to the next setting.

Default screen ➪ [Ent] ➪ [3] ➪ [2] ➪ [Ent]

- Default setting : '0'
- If it is set to the default setting '0', a user should input ID and push [F1]~[F4], [Ent] or go through fingerprint verification.
  If it is set to [1], for a example, a user who uses password inputs ID, which goes for authentication process without pushing any function key.
  The authentication mode is the currently setting mode.

3.5.2.3. Settings for card only authentication

< Only Card >
(N=0/Y=1):0

- Once the setting is complete, press [ENT] to move to the upper menu.

Default screen ➪ [Ent] ➪ [3] ➪ [2] ➪ [Ent]

- Default setting : '0'
- Even for a user who is registered to be authenticated with a card & PW / card & fingerprint, he/she only needs to use a card if this option is set to '1'.
  This option is usually used when there are may terminals installed at the building entrance door where user entry/exit is frequent and the security level is relatively low.

3. Environment settings

3.5.3. Doorlock

1. Application
2. Verify Option
3. Set Doorlock
4. Sound Control
5. Time Setting
6. Other Setting

Default screen➲ [Ent] ➲ [3] ➲ [3]

- Press [3] for door settings.

3.5.3.1. Door opening time

<Open Duration>
(00-30):03

- After this setting is completely done, press [Ent] to move to the next setting.

Default screen➲ [Ent] ➲ [3] ➲ [3]

- Default setting : '03' (unit: sec.)
- This is used to set the door opening time after authentication is successfully done. This means the door opening time only for strike type but is not applicable to dead bolt type or auto door.
- If this is set to '00', the door control in access control mode is out of control. Therefore, '00' setting may be possible only for time & attendance mode, where there is no need for lock control.

3.5.3.2. Door status monitor

<Door Monitor>
[0/1=NO/2=NC]:0

- Once the setting is completely done, Press [Ent] to move to the next setting

Default screen➲ [Ent] ➲ [3] ➲ [3] ➲ [Ent]

- Default setting : '0'
- '0' setting is for no monitoring, '1' setting is for dead bolt type or auto door and '2' setting is for strike type.
- When this is set to '1' or '2', the door status through connected terminal is periodically transmitted to the server.

[0]	NW - No monitoring
[1]	NO - Dead bolt type or auto door (In case that lock monitoring pin is low when the door is locked)
[2]	NC - Strike type (In case that lock monitoring pin is high when the door is locked)

3. Environment settings

3.5.3.3. Door open alarm

<Door Open Alarm>
(00-30):00

- Once the setting is completely done, press [Ent] to move to the upper menu.

Default screen ➔ [Ent] ➔ [3] ➔ [3] ➔ [Ent] ➔ [1] or [2] ➔ [Ent]

- Default setting : '00'
- For smoothly operation of this setting, the relevant lock should be the lock type to be able to monitor whether the door is open or closed and its monitoring pin should properly be connected to the terminal. The previously mentioned setting for monitoring door status should be set to '1' or '2' for this operation.

3.5.4. Volume

1. Application
2. Verify Option
3. Set Doorlock
4. Sound Control
5. Time Setting
6. Other Setting

Default screen ➔ [Ent] ➔ [3]

- Press [4] for volume settings.

3.5.4.1. Voice

<Use Voice>
(N=0/Y=1):1

- Press [Ent] to move to the next setting.

Default screen ➔ [Ent] ➔ [3] ➔ [4]

- Default setting : '1'
- To make voice information about terminal control available, set it to '1'. If not, set it to '0'.

3.5.4.2. Buzzer volume

<Beeper volume>
(0-2):1

- Press [Ent] to move to the next setting.

Default screen ➔ [Ent] ➔ [3] ➔ [4] ➔ [Ent]

- Default setting : '1'
- This is for the terminal buzzer volume. If this is set to '0', there is no buzzer sound. '1' setting means low volume and '2' means high volume.

3. Environment settings

3.5.5. Current time

<Time Setting>
20090925211806

- Press [Ent] to check that the current time is updated and move to the upper menu.

Default screen➔ [Ent] ➔ [3] ➔ [5]

- This is to set the terminal current time. The above example represents the year 2009, month 9, date 25, hour 21, min. 18, and sec. 06. To change it, delete the old numbers with the [Del] button before adding the new numbers.

3.5.6. Other

4. Sound Control
5. Time Setting
6. Other Setting

Default screen➔ [Ent] ➔ [3] ➔ [6]

- Press [6] for other settings.

3.5.6.1. LCD Backlight On/Off

<LCD Backlight>
(0=Off/1=On):

- Press [Ent] to move to the next setting

Default screen➔ [Ent] ➔ [3] ➔ [6]

- Default setting : ‘0’.
- This is for LCD backlight on/off settings. If it is set to the default setting '0', LCD backlight is normally off. Only in cases that a user operates with keypad or card, LCD backlight goes on and after the working operation is done, it goes off in about 10 seconds. If it is set to '1', it always stays on.

3.5.6.2. LCD Brightness settings

<LCD Brightness>
(0-2):1

- Press [Ent] to move to the next setting.

Default screen➔ [Ent] ➔ [3] ➔ [6] ➔ [Ent]

- Default setting : ‘1’.
- This is for LCD brightness level setting menu. The higher setting value is for high brightness.

3.5.6.3. Display Time settings

<Display Time> : 1
0=20:30 1=PM 8:30

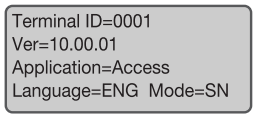
- Once the setting is complete, press [Ent] to move to the upper menu.

Default screen➔ [Ent] ➔ [3] ➔ [6] ➔ [Ent] ➔ [Ent]

- Default setting : ‘1’.
- If it is set to the default setting '0', time is displayed as below.
  [07/08/25 21:30]
  If it is set to the default setting '1', time is displayed as below.
  [07/08/25 PM 9:30]

3. Environment settings

3.6. Searching Terminal info



- Press [0] to scroll up and down the screen.

Default screen ➔ [Ent] ➔ [4]

- In the main menu, press [4] to select "4.Terminal info" and the following screen appears where all the environmental settings are displayed:

Terminal ID	Terminal ID
Version	Terminal firmware version
Application	Terminal application mode (Access/T&A)
Language	Language for text and voice of the LCD screen
Mode	Connection mode between terminal and network server
Network type	Network connection type (static IP/DHCP)
Mac address	Terminal ethernet hardware address
IP address	Terminal IP address
Gateway	Terminal gateway address
Subnet mask	Terminal subnet mask address
Server IP	IP address of network server connected to the terminal
Svr-port	Port number of network server program
Card Reader	Card reader type
FP-Sensor	Fingerprint sensor type
1:1 Level	Identification level for 1:1 authentication
1:N Level	Identification level for 1:N authentication
Max User	Maximum user capacity to be able to be registered to a terminal
Max FP	Maximum fingerprint capacity to be able to be registered to a terminal. For example, if there are 100 registered users and two fingerprints per user are registered, it means a total of 200 fingerprints is registered.
All User	Number of current users registered to a terminal including administrators
All Admin	Number of administrators registered to a terminal
All FP	Number of fingerprints currently registered to a terminal
1:N User	Number of users for 1:N authentication
1:N FP	Number of fingerprints for 1:N authentication
All Log	Authentication records stored in a terminal

3. Environment settings

3.7. Extra functions

□ In the main menu, press [5] to select '5.Ext function' and the following screen appears:

```
1. Lock Terminal
2. Read Card No.
```

3.7.1. Terminal lock settings

```
<Lock?>
(N=0/Y=1):0
```

- Once the setting is complete, press [ENT] to move to the upper menu.

Default screen ➔ [Ent] ➔ [5] ➔ [1]

- Default setting '0' : Releasing terminal lock
  '1' : Setting terminal lock
- Instead of a server program, an administrator can directly set up a terminal lock for a terminal.
  If it is set to '1', the terminal is locked and nobody can pass the door until an administrator unlocks the terminal.
- For this function, 'administrator entering OK' shall be checked in the terminal option of the server program.

3.7.2. Read card number

```
Place Your Card
```

- To exit from this setting, press [Del] to move to the upper menu.

Default screen ➔ [Ent] ➔ [5] ➔ [2]

- As an auxiliary function regardless of the terminal environmental settings, a terminal with a card reader can read the card number to register the card to a server. When the card is read by the terminal, the card number is displayed on the LCD window.

3.7.3. Interfacing with sensor for fire detection

```
<Fire detection Check>
[0/1=NO/2=NC]:0
```

- After setting the value, please press [Ent] and then move on upper menu

Default screen ➔ [Ent] ➔ [5] ➔ [3]

- Default setting '0'
- In terminal, it detects the connected sensor for fire detection. And then it transmits the connected server

3. Environment settings

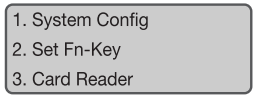
3.8. Device settings

• Enter '084265' as the setting password and press [Ent] to view the detailed setting items.

Default screen ➔ [Ent] ➔ [6]

- A device setting is an option that is not necessary to change after installation, so it is recommended not to change it except when it is really required.
- This setting password is just for user information, so it cannot be changed.

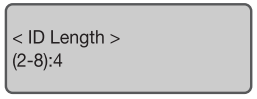
3.8.1. System configuration settings



Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [1]

- Press [1] for system settings.

3.8.1.1. User ID length settings

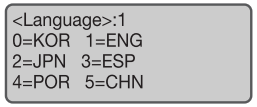


• Press [Ent] to move to the next setting.

Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [1]

- Default setting: '4'
- This can be 2~8 digits and shall be the same as the ID registered in the server program. If the ID registered in the server program is '000075', enter 6.
- Special care is required when reducing the number of digits during normal operation because an administrator may not be able to be authenticated when he wants to enter menus due to the reduced number of digits.

3.8.1.2. Setting language



Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [1] ➔ [Ent]

- Default setting: '1'(English)
- This setting menu output voice message by designated language, '0': Korean, '1':English, '2':Japanese, '3':Spanish, '4':Portuguese, '5':Chinese.
- LCD characters correspond to the assigned language.

3. Environment settings

3.8.2. Function key settings

<Key On/Off>
1=F1 : O 2=F2 : O
3=F3 : O 4=F4 : O
5=Ent : O

• Once the setting is complete, press [Ent] to move to the upper menu.

Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [2]

- Default setting: all '0'
- This is for enabling/disabling the function keys. '0' is 'enable' and 'X is 'disable.
  Whenever a function key is pressed, it toggles between O/X.
- 1 is for [F1], 2 is for [F2], 3 is for [F3], 4 is for [F4], and 5 is for [Ent].
  If F1 becomes X by pressing [1], you can not change to start mode even if you press [F1].
- Additionally, if only [F1] or [F2] is set to '0', the terminal can be used in either always start or always leave mode.

3.8.3. Card reader settings

<Card Reade>:0
0=RF/SC
1=Wiegand

Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [2]

- This is the setting for the card reader connected to a terminal. This shall be set to 0 except in the following cases:.
- '0': 125KHz card or 13.56MHz card
- '1': Additional card reader is connected through wiegand interface.
  (EX: HID reader)

<Card Format >:0
0=Hexa 8byte
1=Hexa 16byte
2=Decimal

• Once the setting is complete, press [Ent] to move to the upper menu.

If it is set to the default setting '0', it is possible to set <Card Format> to change card number display format.

- Default setting: '0'
- '0': Displayed 8 digit number of 16 antilogarithm ⟶ A5CBEF12
  '1': Displayed 8 digit added behind of 8 digit number of 16 antilogarithm ⟶ A5CBEF1200000000
  '2': Displayed 10 digit number of 10 antilogarithm ⟶ 0317705125

<Dummy mode>
(N=0/Y=1) : 0

• After setting the value, please press [Ent] and then move on upper menu

- Default setting: '0'
- When it set up Dummy mode, it transmits card data with connected device from RS-232 by reading the card to terminal.

* In terminal, it does not deal with card data

3. Environment settings

3.8.4. Wiegand output settings

Wiegand Out:0
0=None 1=26bit
2=34bit

Default screen ➔ [Ent] ➔ [6] ➔ '084265'+[Ent] ➔ [4]

- Default setting: '0'
- When this is set to [1], 'Site code + user ID' is sent to the Wiegand port of the terminal when authentication is done.
  It can be used only for systems where there is a lock controller and the controller is operated by a Wiegand input.
  This is usually set to [0].
- If it is set to '1', user ID shall be shorter than 4 digits because 'Site code [1 byte] + user ID [2 bytes]' is transferred.
- If it is set to '2', user ID shall be shorter than 7 digits because 'Site code [1 byte] + user ID [3 bytes]' is transferred.

※ This is not effective when a Wiegand-type card reader is used, and set the following site code when the setting is higher than '1'

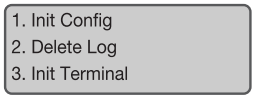
<Site code>
(0-255) : 000

- Default setting: '0'
- This is only available when Wiegand Out is set to '1' or '2'.
  Enter the site code (0-255) to be sent to the Wiegand port together with the user ID

• Once the setting is complete, press [Ent] to move to the upper menu.

3. Environment settings

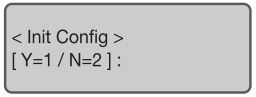
3.8.5. Terminal initialization



Default screen➲ [Ent] ➲ [6] ➲ '084265'+[Ent] ➲ [5]

- Press [1] for settings initialization,
  press [2] for authentication record initialization,
  press [3] for factory initialization.

3.8.5.1. Settings initialization



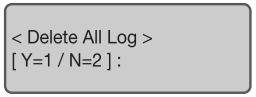
Default screen➲ [Ent] ➲ [6] ➲ '084265'+[Ent] ➲ [5] ➲ [1]

- To initialize settings, press [1]. If not, press [2].
- All the settings except Mac (physical) address are initialized, but the user and authentication records are not deleted.

※ If the settings are initialized, the language of the voice and menus becomes English. If you need to set other language ("6. Set Device" → "5. System Config" → <Language>: set to 0~4)

• If initialization is successful three short beeps will be heard and the screen will go to the upper menu

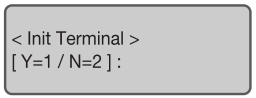
3.8.5.2. Authentication record initialization



Default screen➲ [Ent] ➲ [6] ➲ '084265'+[Ent] ➲ [5] ➲ [2]

- To initialize the record, press [1]. If not, press [2].
- Deletes all logs related to authentication, but settings and users are not deleted.
  Once initialization is done successfully, it moves to the upper menu together with a beeping sound

3.8.5.3. Factory initialization



Default screen➲ [Ent] ➲ [6] ➲ '084265'+[Ent] ➲ [5] ➲ [3]

- To Factory Default settings, press [1]. If not, press [2].
- Except for the Mac (physical) address stored in the terminal, all settings, users and log information are deleted for the factory default.

※ If the settings are initialized, the language of the voice and menus becomes English. If you need to set other language ("6. Set Device" → "5. System Config" → <Language>: set to 0~4)

• Once initialization is done successfully, the terminal is rebooted after three short beeps.

4. How to use the terminal

4.1. Access control

Default screen ➔ [Ent] ➔ [3]Option ➔ [1]Application ➔ [0]Access control settings

4.1.1. Authentication mode

Normal mode;
authentication with [Ent]

F1 mode;
authentication with [F1]

F2 mode;
authentication with [F2]

F3 mode;
authentication with [F3]

F4 mode;
authentication with [F4]

- Card authentication

  Before place the card, change the authentication mode by pressing the corresponding function key.
  or place the card for authentication.

- Password authentication

  After entering the user ID and changing the authentication mode by pressing the corresponding function key,
  enter the password for authentication.

4. How to use the terminal

4.1.2. Card authentication

For a user who is registered as [RF], [RFIFP], or [RFIPW], when placing the card close to the default screen, a beep sound will be heard and the authentication result appears on the LCD.

If you place your card close to the unit, you will hear a beep.

If authentication is successful, you will see a success message on the LCD together with the voice message "You are authorized". The door open icon and the card icon turn on LCD. The default screen appears after 1~2 sec., and the door is closed when the door open setting time has elapsed.

※ Error message: An error message appears together with the voice message "Please try again"

Non-registered card used.

During the authentication request to the authentication server, network trouble occurred or the line is disconnected.

For a user who is registered as [RF&FP] or [ID&FP I RF&FP], when placing the card close to the default screen, a beep will be heard and the following fingerprint authentication screen appears.

When the light on the fingerprint input window turns on together with the voice message "Please enter your fingerprint", enter your fingerprint and hold it there until you hear a beep.

4. How to use the terminal

4.1.3. Password authentication

If the user ID is "0001", enter "0001" and press the function key. You will hear a beeping sound and the terminal waits for the user password to be input. Enter the password and press [Ent], and the authentication result appears on the LCD.

If the user ID is '0001', enter '0001' and press the function key.

You will hear a beeping sound and the terminal waits for the user password to be input.
Enter the password and press [ENT].
(The password is displayed as <*> on the LCD screen, rather than the actual numbers.)

If authentication is successful, you will see a success message on the LCD together with the voice message "You are authorized". The door open icon and the card icon turn on LCD. The default screen appears after 1~2 sec., and the door is closed when the door open setting time has elapsed.

※Error message: An error message appears together with the voice message "Please try again".

Password authentication failed.

Non-registered user ID entered.

During the authentication request to the authentication server, network trouble occurred or the line is disconnected.

4. How to use the terminal

4.2. Time Attendance control

Default screen ➔ [Ent] ➔ [3]Option ➔ [1]Application ➔ [1]T&A (Time Attendance) settings

If the start/leave time is fixed, set <start time>, <leave time>, and <normal time> to reduce user input errors.

4.2.1. Authentication mode

Normal mode; authentication with [Ent]

Start mode;
authentication with [F1]

Leave mode;
authentication with [F2]

Leave mode;
authentication with [F2]

Outside work mode;
authentication with [F3]

- Card authentication
  Before place the card, change the authentication mode by pressing the corresponding function key. or place the card for authentication.
- Password authentication
  After entering the user ID and changing the authentication mode by pressing the corresponding function key, enter the password for authentication.
- Working mode after authentication depends on <start time>, <leave time>, and <normal time> settings.
  The previous authentication mode is maintained if no mode is set for a specific time period.

4.2.2. Working mode expansion using multi-key authentication

- Same as 4.1.2.

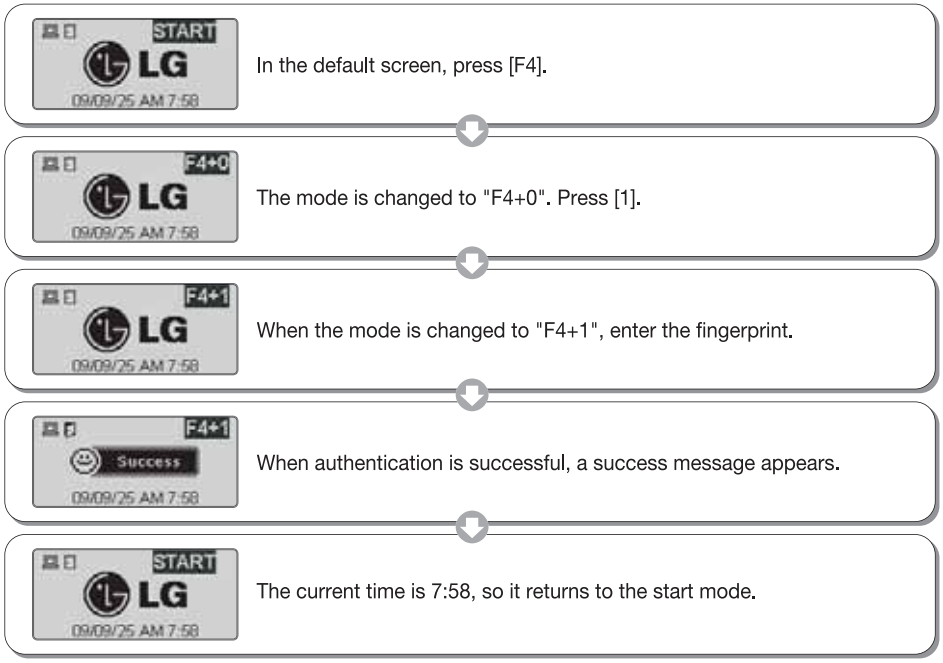
4.2.3. Password authentication

- Same as 4.1.3.

4. How to use the terminal

4.2.4. Working mode expansion using multi-key authentication

- If more than 5 working modes such as start, leave, outside work, return, and general are required, it can be expanded up to 41 modes.
- After **Default screen ➔ [Ent] ➔ [3]Option ➔ [1]Application ➔ [1]T&A (Time Attendance) settings** set more than one key to '0'. However, the keys set to 'X' are not the case.
- Because a mode is defined with a number key, enter a number key after entering the function key for authentication. In the server program, authentication mode is "F3+1".
- For example, when [F4] is set to [O] and <start time> is set to '07:00~09:30', if a fingerprint user tries authentication "F4+1"mode



4. How to use the terminal

4.3. Meal control

Default screen ➔ [Ent] ➔ [3]Option ➔ [1]Application ➔ [2] Meal settings

- If the terminal is set for meal control, as the terminal is in "lock setting!" status during other time frames except for the meal times previously set, at least more than one time frame as meal time should be set for meal control usage.
- Basically, a single authentication is allowed for each meal per user but double authentication is also possible **Default screen ➔ [Ent] ➔ [3]Option ➔ [1]Application ➔ [2] Meal settings ➔ <Without Limit>**

4.3.1. Meal classification

- In meal control, the function key is just an operation key for authentication. There is just meal classification with a meal time frame - there is no mode classification. The number shown in the LCD screen means the number of authentication for a specific meal time period.

Total number of successful authentication is displayed.

Not in meal time period

In case that a user tries double authentication during the same meal time period

4.3.2. Card authentication

- Same as 4.1.2., but [Ent] cannot be used as a function key.

4.3.3. Password authentication

- Same as 4.1.3., but [Ent] cannot be used as a function key.

P/N : MFL62731801