



# **MF61**

# **Access Control**

# **User Manual**

2012.09.26

# 【Content】

1、About MF61 access controllers .....	1
2、Main Features .....	1
2.1 Features.....	1
2.2 Functionality .....	1
2.2.1 User account management .....	1
2.2.2 System administration.....	1
2.2.3 Access Control .....	2
2.2.4 Access Log.....	2
2.2.5 Verification mode.....	2
3、On screen display setup: .....	3
4、User Account menu.....	4
4.1 Fingerprint verification .....	4
4.2 Password verification.....	5
4.3 RFID Card verification .....	6
4.4 RFID Card & Fingerprint & Administrator password .....	6
4.5 Fingerprint or Password verification.....	7
5、Administrator operation menu .....	8
5.1 User.....	9
5.1.1 Add User : Enroll new user to terminal.....	9
5.1.1.1 Enroll fingerprint to system .....	9
5.1.1.2 Registry Password.....	10
5.1.1.3 Registry Card .....	11
5.1.2. Delete User : Delete Single User .....	12
5.1.3 Activate user account for MF61 system.....	12
5.1.4 Inactivate User account to MF61 system .....	13
5.2 System Setup .....	14
5.2.1 Date and Time : Setup time, date and weekday for MF61 .....	14
5.2.2 Admin setup: modify admin password and setup certain user to be system administrator .....	15
5.2.2.1 Modify system administrator log in password .....	15
5.2.2.2 Set manager.....	16
5.2.2.2.1 Set manager to system : 5 Users can be assigned for administrator for system .....	16
5.2.2.2.2 Delete manager : Delete manager for system.....	17
5.2.3 IP Configure: Setup IP address for MF61 system .....	18

5.3 System restore and delete .....	19
5.3.1 Delete all user .....	19
5.2.3 Delete all record : .....	19
5.3.3 IP Config : Reset to default IP .....	20
5.4 Misc. ....	21
5.4.1 User and log: display registry user account number and log entry amount .....	21
6 、 Technical information for MF61 series.....	22
6.1 Physical features .....	22
6.2 Power consumption.....	22
6.3 Environment.....	22
6.4 Communication.....	22
6.5 Relay .....	22
6.6 User capacity.....	22
6.7 Log capacity.....	23
6.8 Dimension.....	23
6.9 Weight.....	23
6.10 Fingerprint template size (BF-630W only) .....	23
6.11 Input .....	23
6.12 Display .....	23

# 1、 About MF61 access controllers

MF61 series is designed for both access controls to secure work places like parking space, lift & floor control and time attendance, overtime with personal ID authentication and Time attendance, overtime, shift, rotation.

## 2、 Main Features

### 2.1 Features

- Fingerprint ID authentication enhances location security
- Reliable fingerprint ID algorithm applied to lower FRR and FAR rate
- Access control, Time attendance and overtime all-in-one management
- Function keys provide for access control and time attendance
- 4 function keys and 10 numeric keys matrix up to 40 sets of function combination for time attendance
- Lower system maintenance costs
- Flexible in standalone and reader mode for MF61 series applications
- Built-in web server allows modify, download, user management and system maintenance on line

### 2.2 Functionality

#### 2.2.1 User account management

- MF61 series provides 4 different types of authentication modes (1.Fingerprint 2.Password 3.RFID Card 4.Fingerprint and Password).
- MF61 series provides 32 sets of combination for department, 32 sets designations for variety.
- Validation for certain user account can be flexible configuration by administrators.
- According to Group setup method to plan schematic time and access control.
- Provides user account list to review individual employee ID, name, status and authentication mode.
- Delete all or certain user account.

#### 2.2.2 System administration

- Built-in web server to convenient data modification, data download and user account management over browser.
- 2-Leverage password security for system administration to prevent intentionally modification for system.
- Configurable Terminal ID, Displaying subject, Fingerprint verification level, System maintenance time, Card number format.
- Applicable at different site: Standalone and reader mode.
- Web based modification for terminal setup.
- Web based adjustment for system time: Manual adjustment or Time server daily adjustment.
- Provide up to 40 function key sets.
- Web based user account data backup and restore.
- Web based user list update.

### **2.2.3 Access Control**

- 64 Time set, 64 Time zone, 32 Group, 50 Holiday configurable.
- Applicable for lift control system.
- Configurable door lock release time, exit button, and APB (BF-20 relay and Wiegand reader should apply), Door open and delay time.

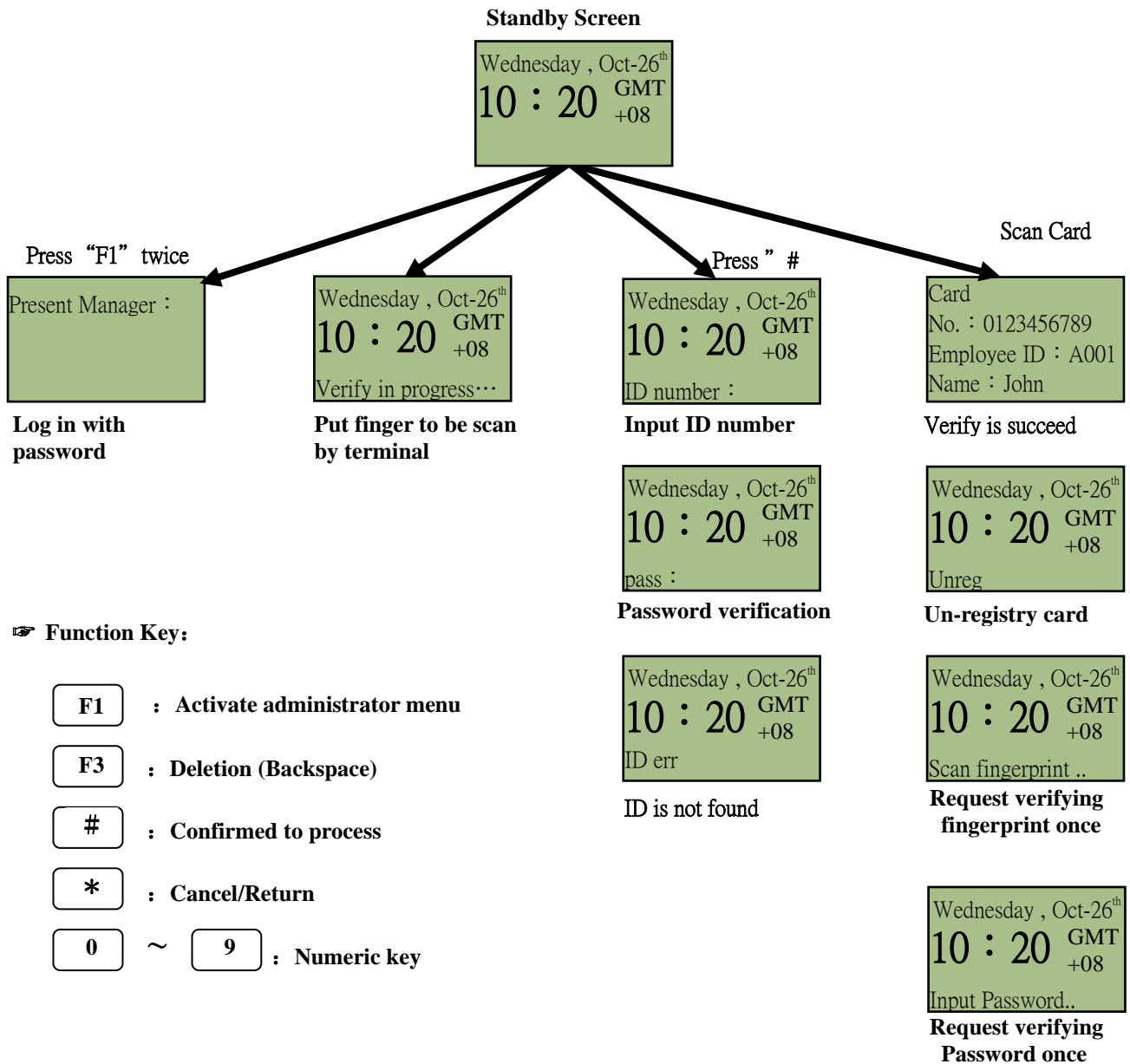
### **2.2.4 Access Log**

- Web based real time access log look up function applicable for user account.
- Access log look up method can be combined User ID, Terminal ID, Department, Function keys, Time Zone.
- Web based First In/Last Out access log look up for user account.
- Web based access log report extraction (TXT and XLS).
- Software based log extraction.

### **2.2.5 Verification mode**

- MF61 series provide 6 verification mode for user account, including 1.Fingerprint 2.RFID Card 3.Password 4.Fingerprint and Password 5.Fingerprint or Password 6.Fingerprint and Mifare card – for Mifare Terminal only)
- Provide Group, Time Zone, Fingerprint and Password, RFID Card and Password time zone for advance security verification option.

### 3、 On screen display setup:

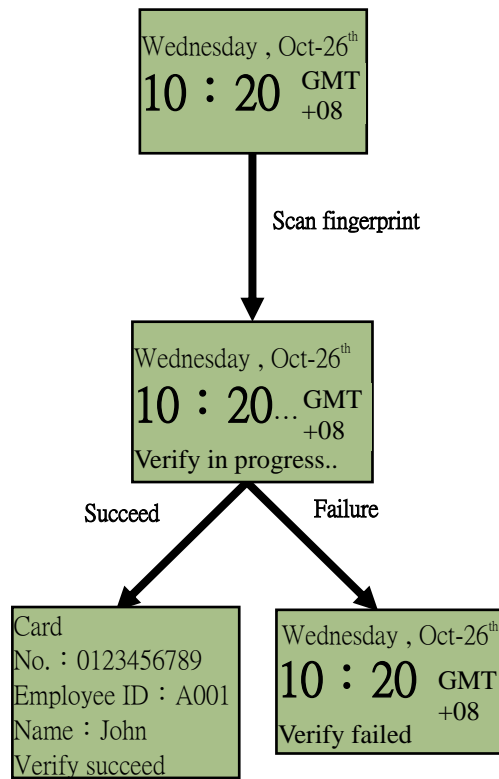


**Function Key:**

F1	: Activate administrator menu
F3	: Deletion (Backspace)
#	: Confirmed to process
*	: Cancel/Return
0	~
9	: Numeric key

## 4、 User Account menu

### 4.1 Fingerprint verification



#### ☞ Operation mode

A. 1: N mode : Less than 1,000 user account  
(Free-Scan enabled)

B. 1: N mode: Less than 1,000 user account  
(Free-Scan disabled)

Press # for 1: N mode

**Note:** 1. When Function key applied, Press  
Function key +“#”for 1:N fingerprint  
verification

2. When user name is required to be display  
on MF631/MF670 LCD, registry user  
account name over Software or Web  
Server is needed.

#### ☞ Function Key :

: Activate administrator menu

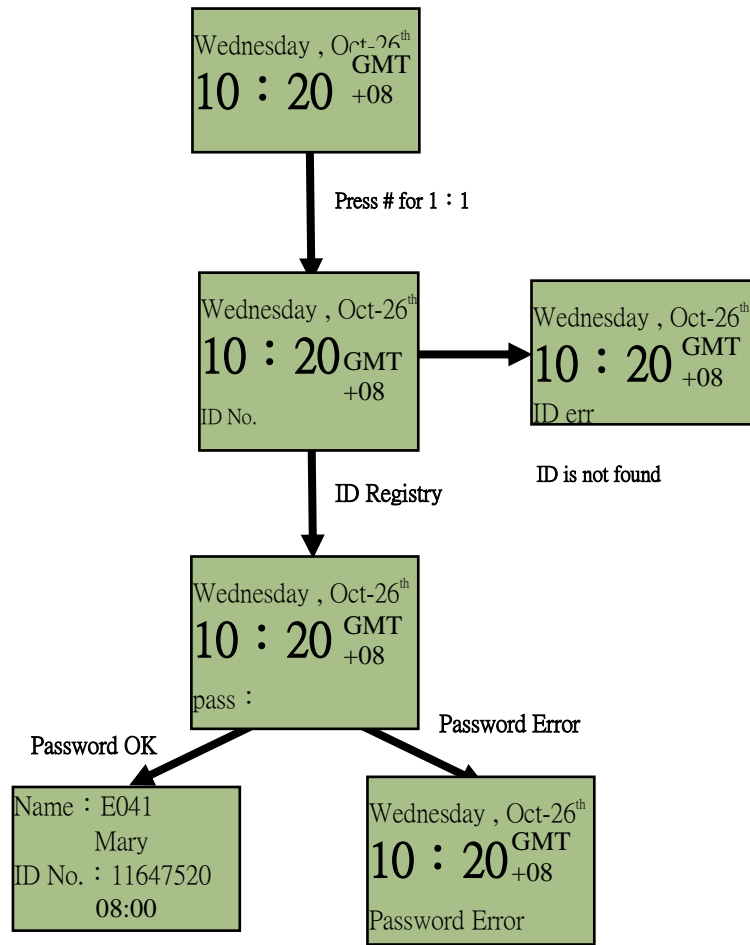
: Deletion (Backspace)

: Confirmed to process

: Cancel/Return

~  : Numeric key

## 4.2 Password verification



### ☞ Verification mode:

#### 1. (1: 1) mode: Up to 5,000 user account

- ~  Input ID
- Press # to confirm
- ~  Input Password
- Press # to confirm

#### 2 : Scan card over terminal

- ~  I
- Press # to confirm

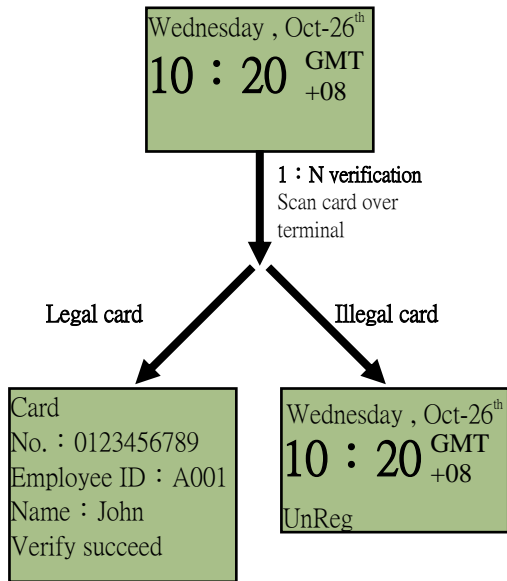
### ☞ Function Key :

- : Activate administrator menu
- : Deletion (Backspace)
- : Confirmed to process
- : Cancel / Return
- ~  : Numeric key

- Note:**
1. When Function key applied, Press Function key + “#” for 1:N fingerprint verification
  2. When user name is required to be display on MF631/MF670 LCD, registry user account name over Software or Web Server is needed.



### 4.3 RFID Card verification



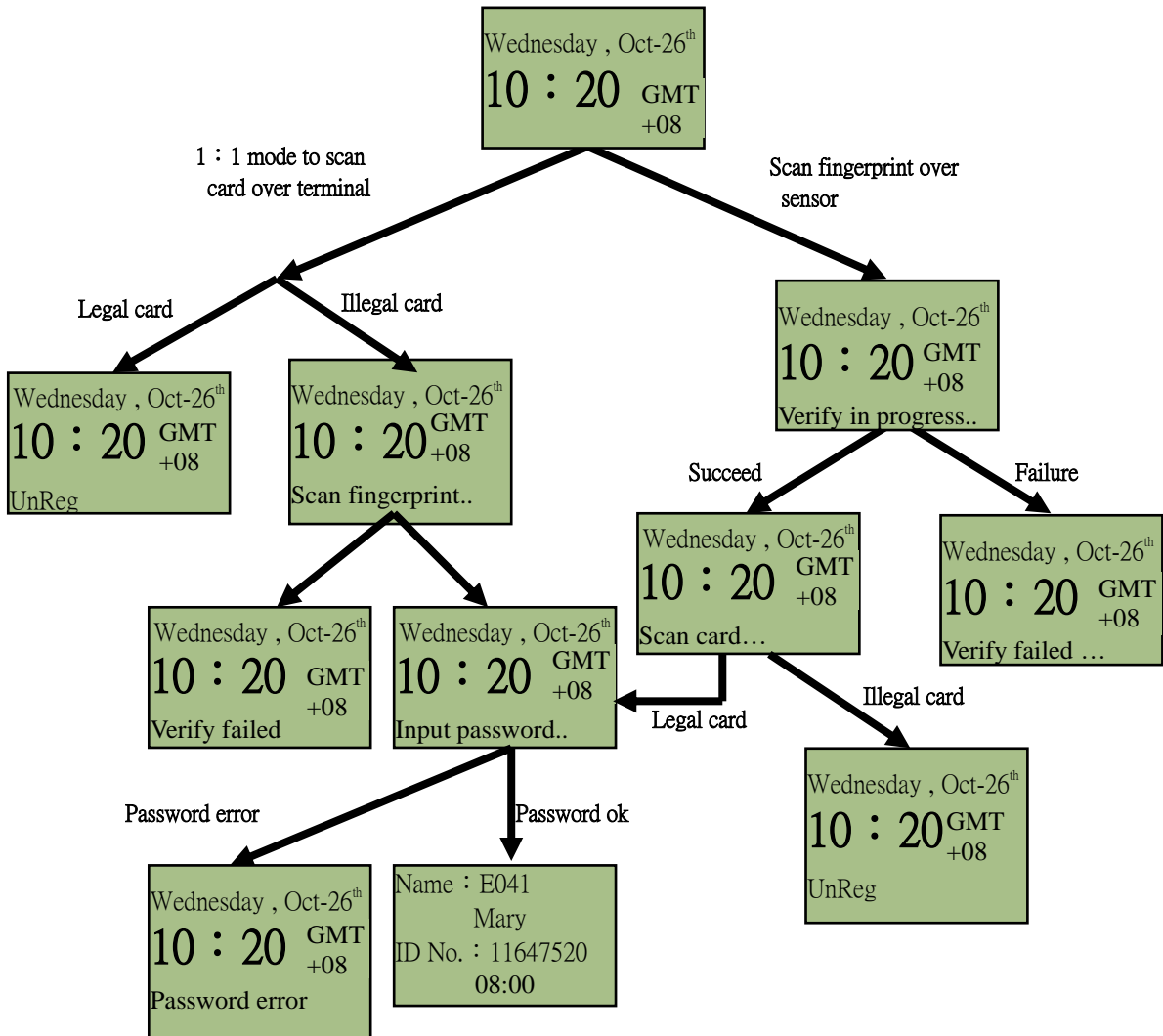
**Verification mode:**  
Scan card directly over terminal

**Note:** 1. When Function key applied, Press Function key + “#” for 1:N fingerprint verification  
2. When user name is required to be display on MF631/MF670 LCD, registry user account name over Software or Web Server is needed.

**Function key:**

- F11** : Enable Administrator menu
- F3** : Delete
- #** : Confirm to proceed
- \*** : Cancel / Return
- 0** ~ **9** : Numeric Key

### 4.4 RFID Card & Fingerprint & Administrator password



☞ **Verification mode:**

**A : Scan card and fingerprint over terminal**

~  Input admin password

Press # to confirm

**B: 1: N mode : Less than 1,000 user account  
(Free scan mode enabled)**

**Scan fingerprint and card over terminal**

~  Input admin password

Press # to confirm

**C: 1: N mode: Less than 1,000 user account  
(Free scan mode disabled)**

Press # to 1: N mode

**Scann fingerprint and card over terminal**

~  Input admin password

Press # to confirm

☞ **Function key:**

: Enable administrator menu

: Delete (Backspace)

: Confirm to process

: Cancel /Return

~  : Numeric key

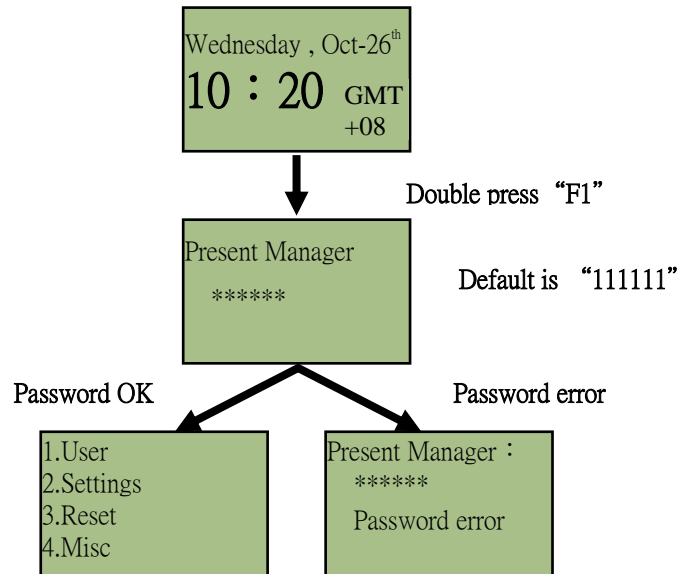
- Note:**
1. When Function key applied, Press Function key +“#”for 1:N fingerprint verification
  2. When user name is required to be display on MF631/MF670 LCD, registry user account name over Software or Web Server is needed.

## 4.5 Fingerprint or Password verification

Operation mode is same as section 4.1, the priority for the verification mode is Fingerprint > Password, when password verification failed, system log in will require to input user password.

## 5、 Administrator operation menu

Administrator menu offers registration, modification, delete user account, and system setup. Access to administration mode by double pressing F1 key over terminal.



### 👁 Operation:

- Press "F1" twice
- ~  Input 6 digits for password.  
Default is "111111"
- Press # to confirm
- ~  Select by pressing 1~4 items  
from menu
- Press "\*" to exit menu

### 👁 Function Key:

- : Enable administrator menu
- : Delete (Backspace)
- : Confirm to process
- : Cancel /Return
- ~  : Numeric

# 5.1 User

## 5.1.1 Add User: Enroll new user to terminal

### 5.1.1.1 Enroll fingerprint to system

**Operation:**

- ~  Press 1 for add user
- ~  Input user ID
- Input ID by keypad, press # to confirm

Scan a blank card

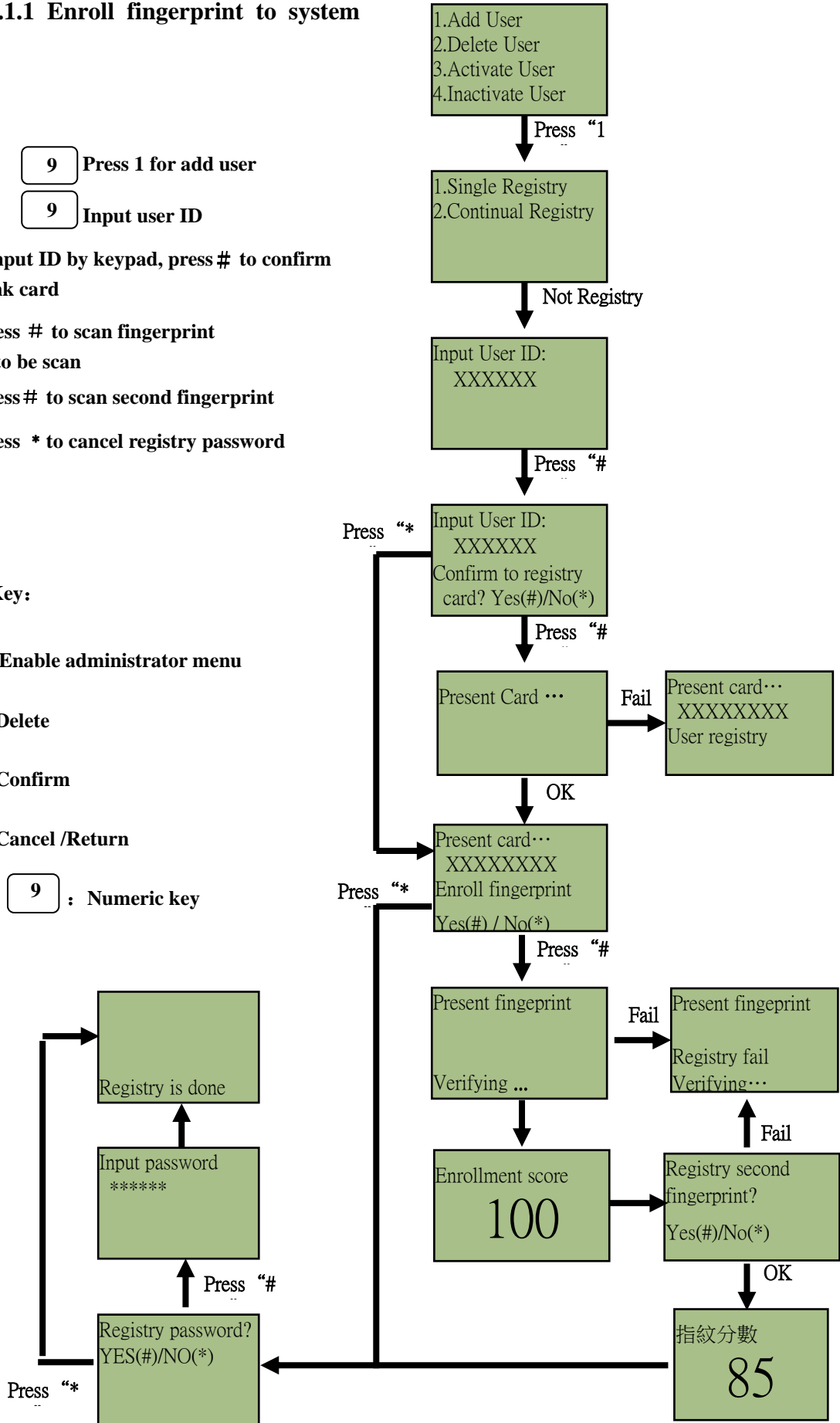
- Press # to scan fingerprint

Put finger to be scan

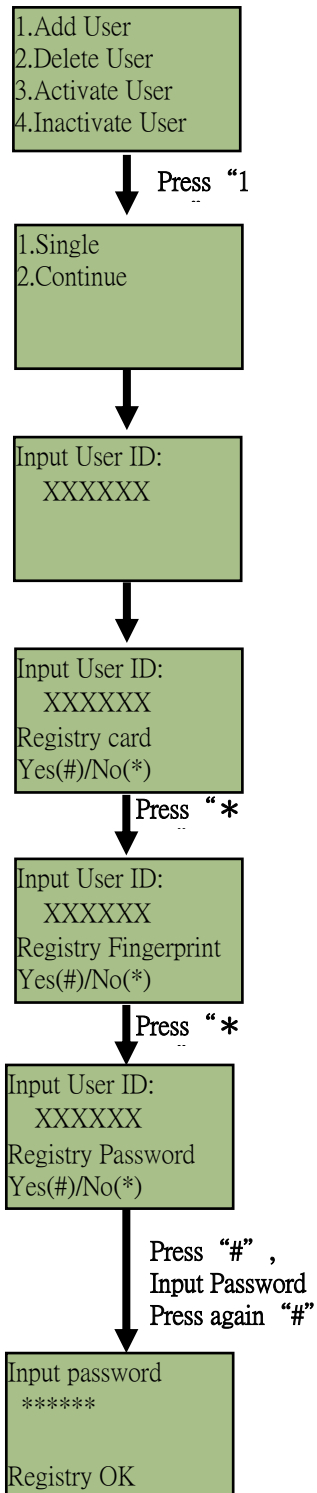
- Press # to scan second fingerprint
- Press \* to cancel registry password

**Function Key:**

- : Enable administrator menu
- : Delete
- : Confirm
- : Cancel /Return
- ~  : Numeric key



### 5.1.1.2 Registry Password



#### Operation:

- ~  Press 1 to add user
- ~  Input ID
- Press # to confirm
- Press \* to cancel card registry
- Press \* 取 to cancel fp registry
- Press # to confirm password registry
- ~  Input 6~10 numeric password
- Press # to confirm

#### Function Key:

- : Enable administrator menu
- : Delete(Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric key

### 5.1.1.3 Registry Card

#### ☞ Operation:

**0** ~ **9** Press 1 to add user

Add User ID

Scan card

**\*** Press \* to cancel fingerprint registry

**\*** Press \* to cancel password registry

**#** Press # to confirm

#### ☞ Function Key

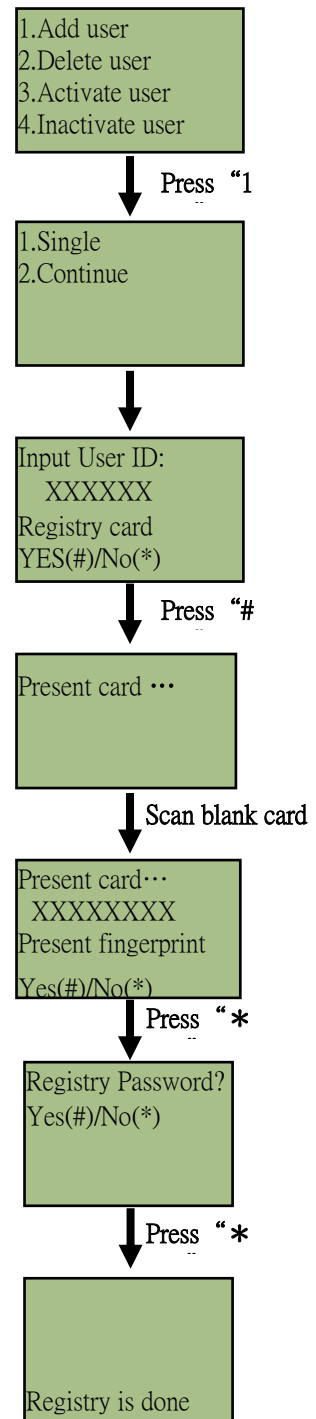
**F11** : Enable administrator

**F3** : Delete (Backspace)

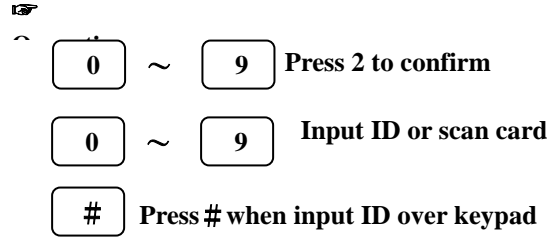
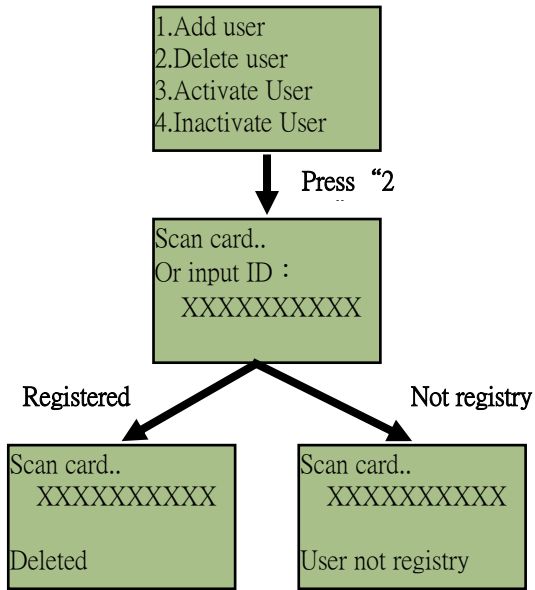
**#** : Confirm

**\*** : Cancel/Retur

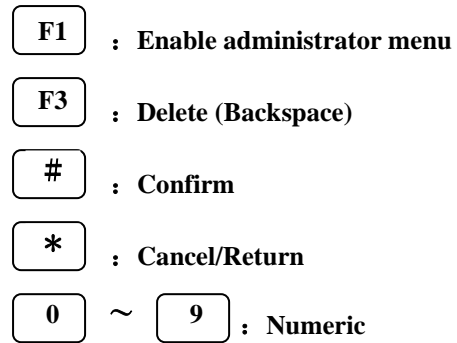
**0** ~ **9** : Numeric Key



### 5.1.2. Delete User: Delete Single User

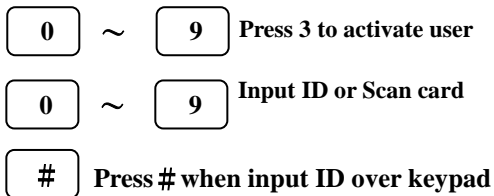


#### Function key:

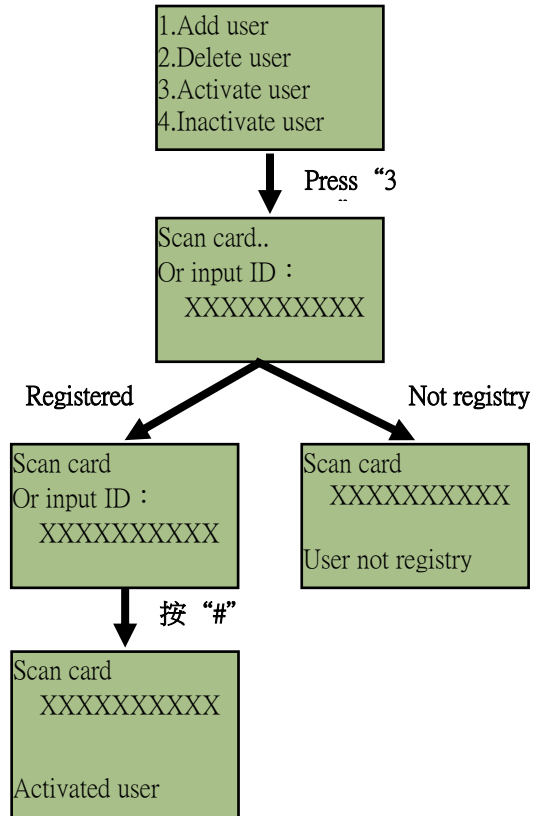
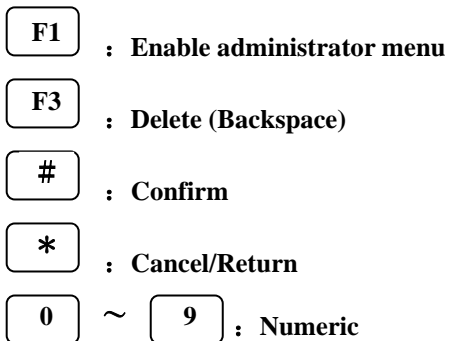


### 5.1.3 Activate user account for MF61 system

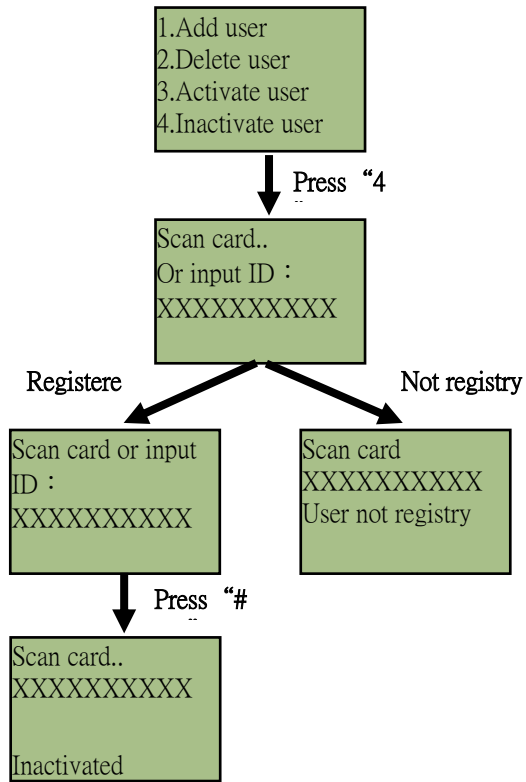
#### Operation:



#### Function key:



### 5.1.4 Inactivate User account to MF61 system



☞ **Operation:** Press 4 to inactivate user

~

~  Input ID or scan card

Press #to confirm when input ID over keypad

☞ **Function key:**

: Enable administrator menu

: Delete (Backspace)

: Confirm

: Cancel/Return

~  : Numeric



## 5.2 System Setup

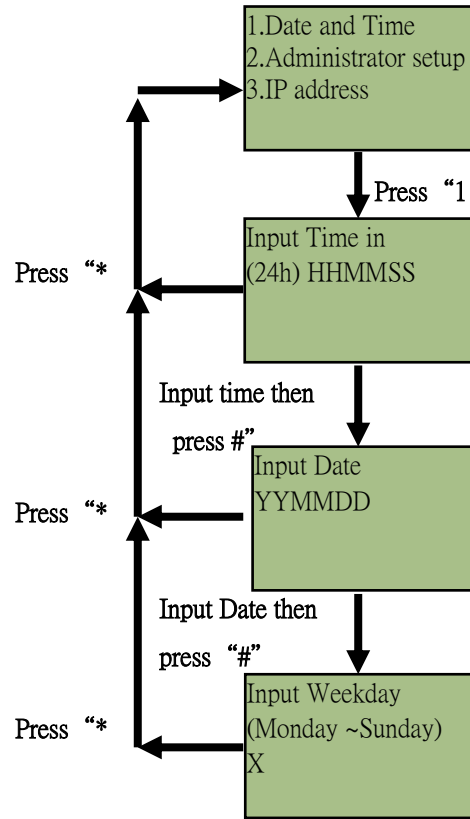
### 5.2.1 Date and Time: Setup time, date and weekday for MF61

#### ☞ Operation:

- ~  Press 1 to set system time
- ~  Input time format as HHMMSS
- Press # to confirm
- ~  Input date format as YYMMDD
- Press # to confirm
- ~  Input weekday: Monday~Sunday
- Press # to confirm

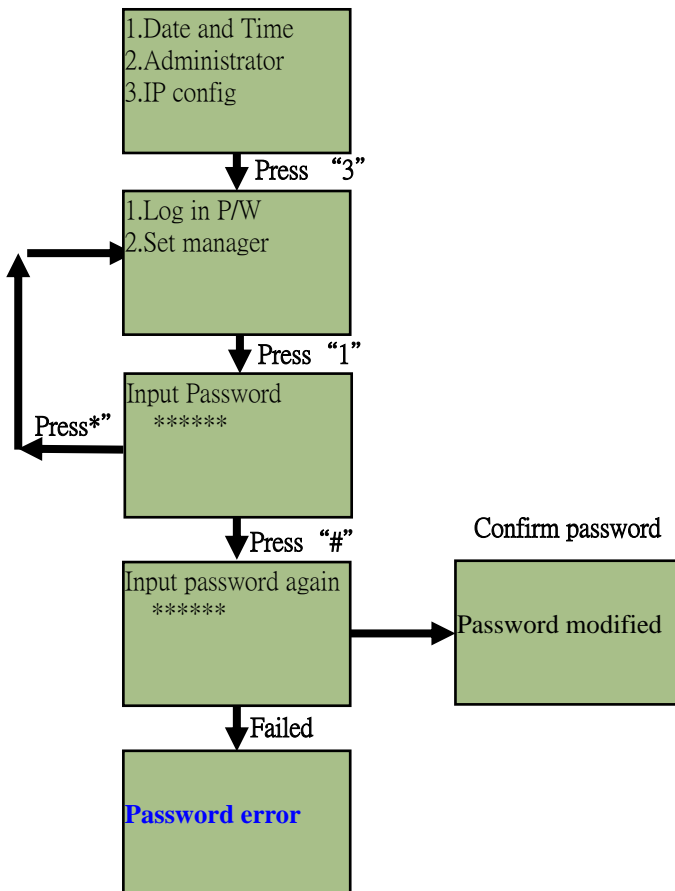
#### ☞ Function key:

- : Enable
- : Delete (Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric



## 5.2.2 Admin setup: modify admin password and setup certain user to be system administrator

### 5.2.2.1 Modify system administrator log in password



#### Operation:

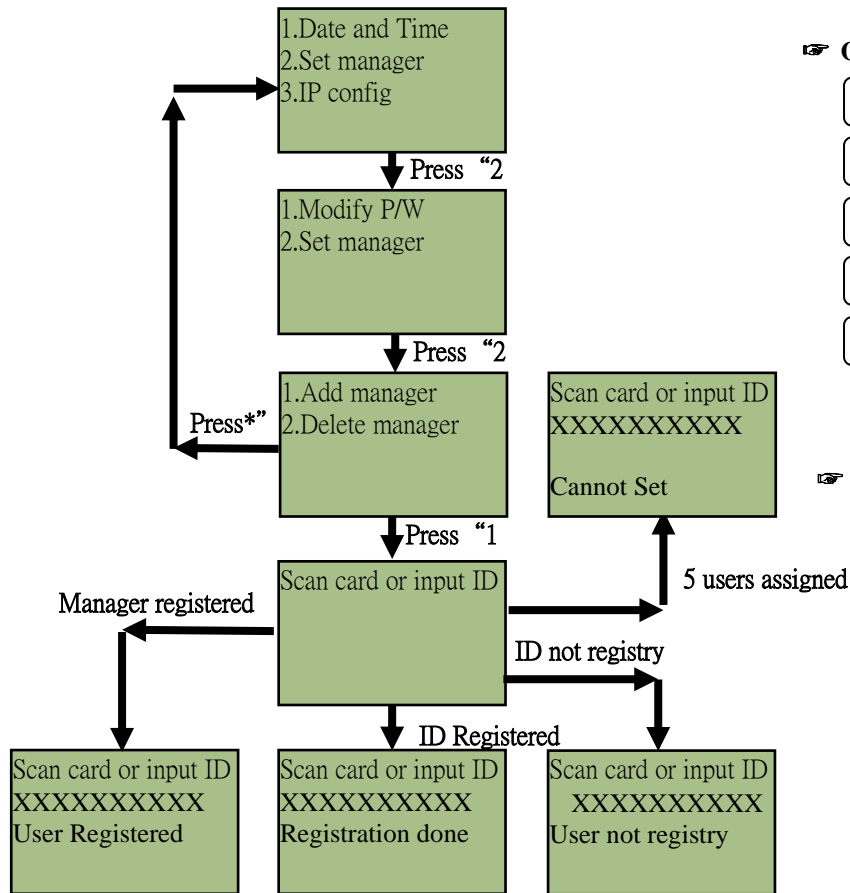
- ~  Press 2 for Administrator setup
- ~  Press 1 to modify admin password
- ~  Input 6 digits password
- Press # to confirm
- ~  Input new password in 6 digits
- Press # to confirm

#### Function key:

- : Enable administrator
- : Delete (Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric key

## 5.2.2.2 Set manager

### 5.2.2.2.1 Set manager to system : 5 Users can be assigned for administrator for system



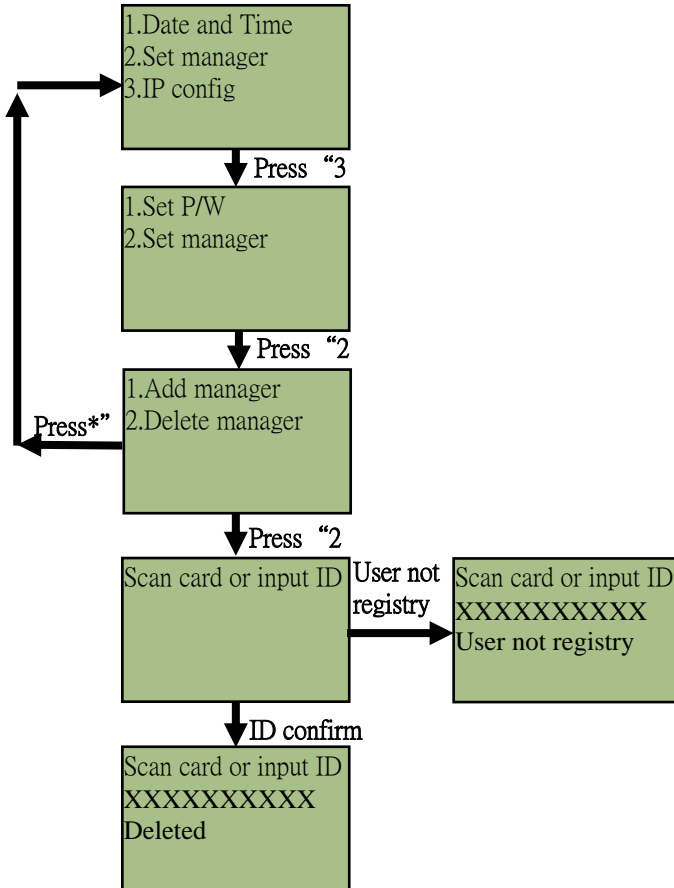
#### Operation:

- ~  Press 2 to set manager
- ~  Press 2 to configure user
- ~  Press 1 to confirm new manager
- ~  Input ID or Scan card to set manager
- Press # to confirm when input ID over keypad

#### Function key:

- : Enable
- : Delete (Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric key

### 5.2.2.2.2 Delete manager : Delete manager for system



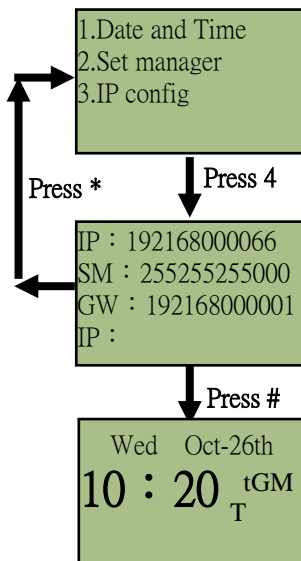
#### ☞ Operation:

- ~  Press 2 to set manager function
- ~  Press 2 to set manager
- ~  Press 2 to delete manager
- ~  Input ID or scan card
- Press # when input ID over keypad

#### ☞ Function:

- : Enable administrator
- : Delete (Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric key

### 5.2.3 IP Configure: Setup IP address for MF61 system



#### ☞ Operation:

- ~  Press 4 to set IP
- ~  Input IP、Subnet mask、Gateway
- Press # to confirm

Note : IP, Subnet mask, Default Gateway format as:

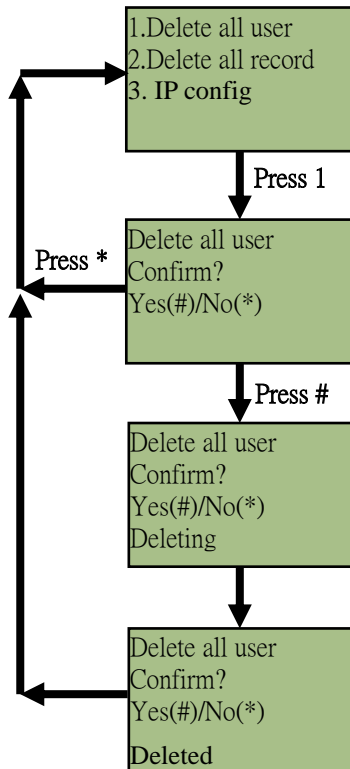
IP format will be: 192168000012  
Subnet mask will be: 255255255000  
Default Gateway will be:192168000001

#### ☞ Function:

- : Enable administrator
- : Delete (Backspace)
- : Confirm
- : Cancel/Return
- ~  : Numeric key

## 5.3 System restore and delete

### 5.3.1 Delete all user



#### Operation:

~  Press 1 to delete all user

Press # to confirm

#### Function key:

: Enable administrator menu

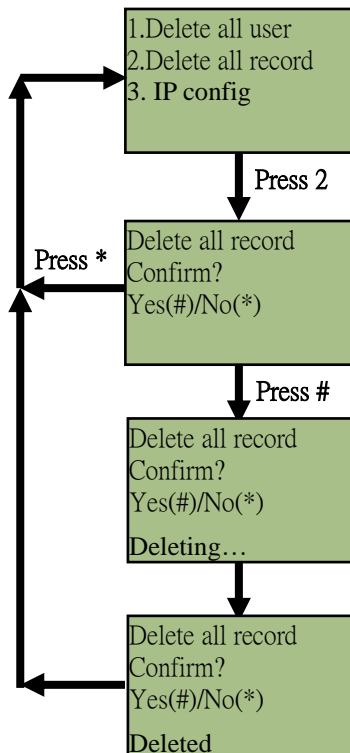
: Delete (Backspace)

: Confirm

: Cancel/Return

~  : Numeric

### 5.2.3 Delete all record :



#### Operation:

~  Press 2 to delete all

Press # to confirm

#### Function key:

: Enable administrator menu

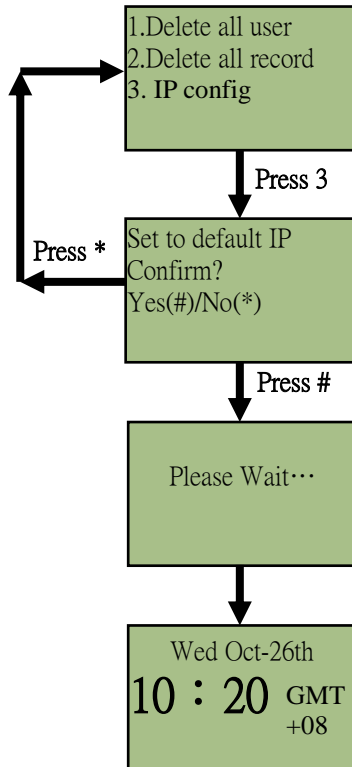
: Delete (Backspace)

: Confirm

: Cancel/Return

~  : Numeric

### 5.3.3 IP Config: Reset to default IP



#### ☞ Operation:

~  Press 3 to set to default IP

press # to confirm

#### ☞ Function key:

: Enable administrator menu

: Delete (Backspace)

: Confirm

: Cancel/Return

~  : Numeric

## 5.4 Misc.

### 5.4.1 User and log: display registry user account number and log entry amount

1.User account  
number and log  
amount

↓ Press 1

User : 00066  
LOG : 01234

☞ Operation:

~  Press 1 to check user and log number

☞ Operation:

: Enable administrator menu

: Delete (Backspace)

: Confirm

: Cancel/Return

~  : Numeric key



## 6、 Technical information for MF61 series

### 6.1 Physical features

- CPU board
- Keypad/LCD
- Fingerprint Module (BF-630W)

### 6.2 Power consumption

#### 6.2.1 Voltage

- +9V--+30V DC

#### 6.2.2 Currency

- General power consumption: 600mA, 12V /avg.
- Max power consumption: 800mA, 12V

### 6.3 Environment

#### 6.3.1 Temperature and Humidity

- Operation Temperature: 0°C to 55°C
- Storage Temperature: -20°C to 70°C
- Operation humidity: 0% to 90%
- Storage humidity : 0% to 90%

#### 6.3.2 ESD and protection

- Surge protection: Serial port 15kv ESD
- Magnetic protection: Ethernet port 1.5kv

### 6.4 Communication

- 1 RJ-45(10/100M)
- 1 RS-485 (compliant to RS-485 standard)
- 1 Wiegand output (OD0, OD1)

### 6.5 Relay

- Access control relay (COM, NO, NC), AC 120V/2A、DC 30V/2A
- Tamper switch \* 1
- Exit button \* 1
- Fire alarm \* 1
- Door bell \* 1

### 6.6 User capacity

- Up to 950 user account, two fingerprint template each person (BF-630W) , one set Card ID and one set Password

## **6.7 Log capacity**

- Up to 65536 log entries

## **6.8 Dimension**

- CPU board: 109mm(H) X 82mm(W)
- LCD/Keypad: 106mm(H) X 82mm(W)
- MF61 : 125mm(H) X 145mm(W) X 33(D)

## **6.9 Weight**

- 340g

## **6.10 Fingerprint template size (BF-630W only)**

- 256 ~ 384 bytes

## **6.11 Input**

- 10 Numeric key+ 6 Function key

## **6.12 Display**

- 1 Buzzer
- 1 LCD: 128 X 64
- 3 LED