

MX60

User's Manual V2.0

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1 About MX60

MX60 is developed to manage entrance security, work place time and attendance, over-work time verification and other situation requiring the presence of the authorized personnel.

MX60 within 1 Card Reader, 128 X 64 pixel LCD screen, 10 push buttons, 6 function keys, 1 door bell button and 1 buzzer. These equipments make MX60 user-friendly.

2 Features

2.1 Characteristics

- **Entrance security, time and attendance, over-time management and other applications**
MX60 system allows for entrance security, work place time and attendance, over-time work. Also, situations that require the presence of the authorized persons at a secured point can take advantage of our MX60 system.
- **Special function keys may be configured to time and attendance and entrance access management**
4 programmable function keys can be used to manage time and attendance. One MX60 can be adapted to manage many different kinds of work involving site security control and time and attendance.
- **Use of stand-alone modules or working as reader**
MX60 entrance control system may be used as stand-alone units to control entrance traffic. Also, direct connection to a PC is possible via RS-232/RS-485 or TCP/IP protocol or working as reader. Because MX60 content RTC and log management capabilities (up to 32,768 records), entrance security and other event management are possible without an ACU.

2.2 Support functions

2.2.1 User management

- Register a user, provides 2 type of register (1.Password 2.Card)
- Provide 32 designations and 32 departments
- User can set the employee limit period separately by truly situation
- User can set the attendance and time by the group
- Activate or deactivate user's authority
- View all registered ID list
- Delete a user or all users

2.2.2 System management

- The system sets 2 level accounts and passwords to prevent the setting from change purposely
- You can set the terminal number, title, description, maintenance time, card ID display format and working stand alone or as reader.
- Set the communicate status on line. For example, IP ADDRESS, Gateway, DNS, Port Number, Host Name.
- Set the clock on line. You can revise it by your hand or connect to the time server to revise everyday
- Provide 40 function key define and can used for in/out trigger setup
- Upgrade firmware on line
- You can backup or restore the user data directly
- You can import all user data directly on line

2.2.3 Door mode

- Provide 64 time set, 64 time zone, 32 group, 50 holiday
- You can connect door lock controller to set lock release time zone \ exit button work time zone and enable anti-pass back function
- Monitor entrance status on line
- You can turn on or close door security by real situation

2.2.4 Log

- Access log: each user or employee can check in or out log by through any computer
- Query log by user number, terminal number, department, function key or time period
- Query user first in and last out log in one day
- Export the in/out log (TXT and XLS format)
- Download the log by using the software

2.2.5 Authentication

- Authentication at the terminal by Card/Card+Password
- Collocate with group, time zone to set card+password identification time zone

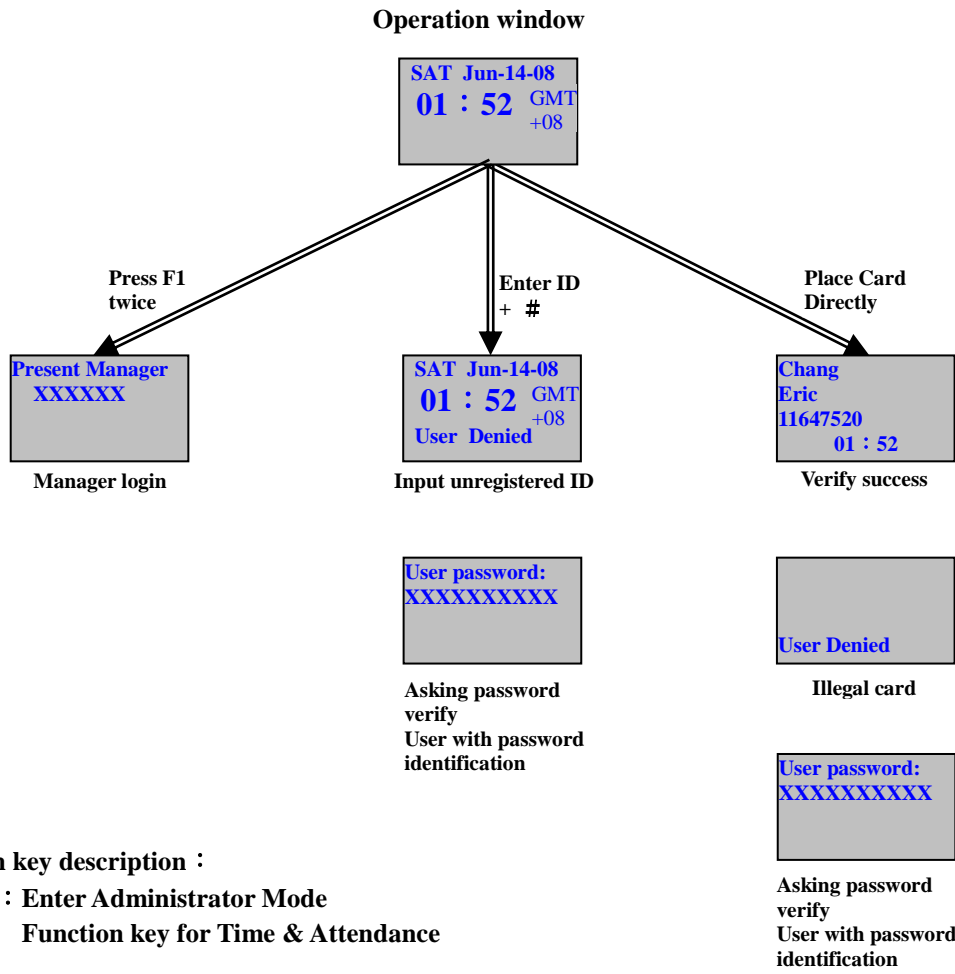
2.2.6 Real time event

- Display user I.D. Name on LCD at authentication time.

2.2.7 Auxiliary function

- Exit button
- Relay out for lock driver

3 Operation window

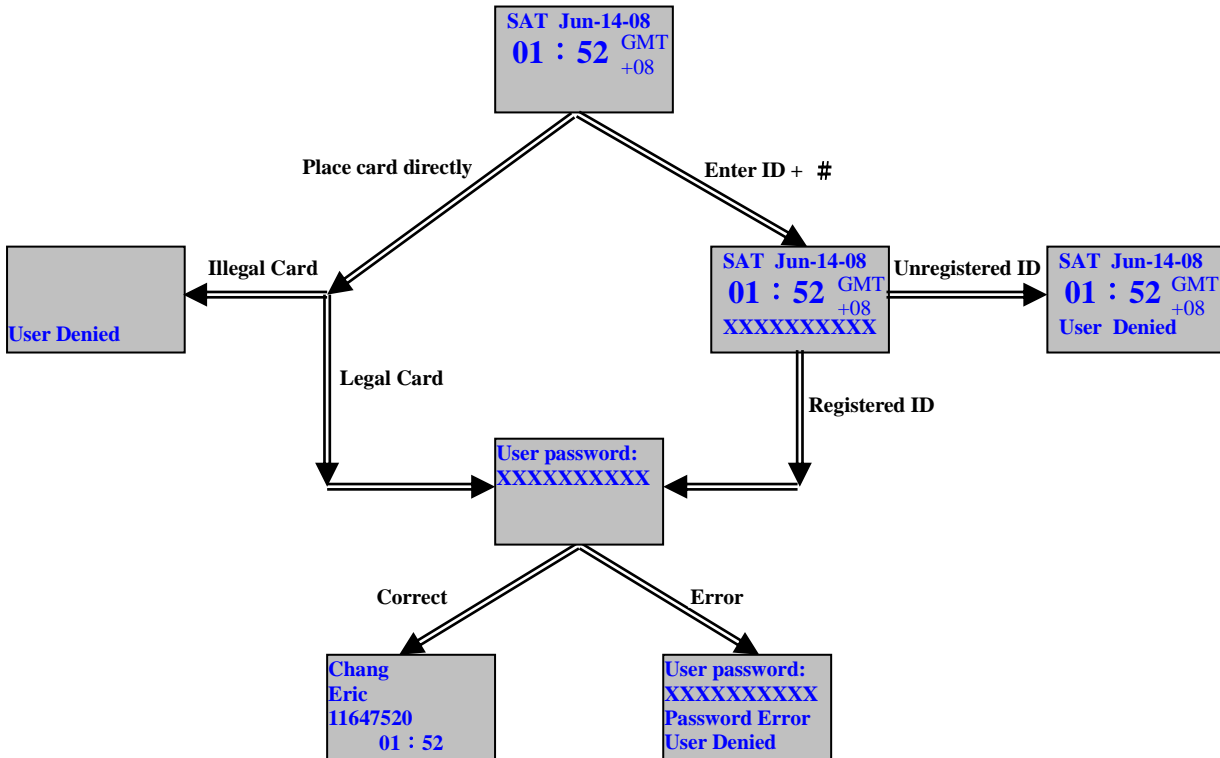


☞ **Function key description :**

- F1** : Enter Administrator Mode
Function key for Time & Attendance
- F2** : Function key for Time & Attendance
- F3** : Delete (Backspace)
Function key for Time & Attendance
- F4** : Function key for Time & Attendance
- #** : Confirm
- *** : Cancel
- 0** ~ **9** : Number key

4 User's Menu

4.1 For Card + Password verify user



☞ Operation description :

Max. 950 users

Method 1 :

~ Enter ID

Press #

~ Enter password
6~10 digit

Press #

Method 2 :

Place sensor card on the coil directly

~ Enter password
6~10 digit

Press #

☞ Function key description :

: Enter Administrator Mode
Function key for Time & Attendance

: Function key for Time & Attendance

: Delete (Backspace)
Function key for Time & Attendance

: Function key for Time & Attendance

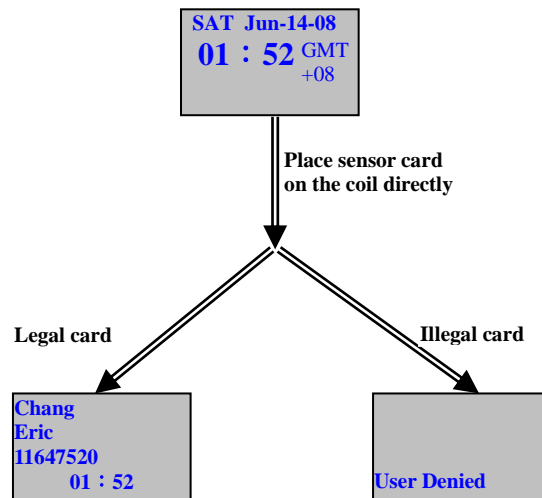
: Confirm

: Cancel

~ : Number key

Note : 1. If you use function key please press function key first

4.2 For card verify user



☞ Operation description :

Max. 950 users

Place sensor card on the coil directly

Note : 1. If you use function key please press function key first

☞ Function key description :

F1 : Enter Administrator Mode
Function key for Time & Attendance

F2 : Function key for Time & Attendance

F3 : Delete (Backspace)
Function key for Time & Attendance

F4 : Function key for Time & Attendance

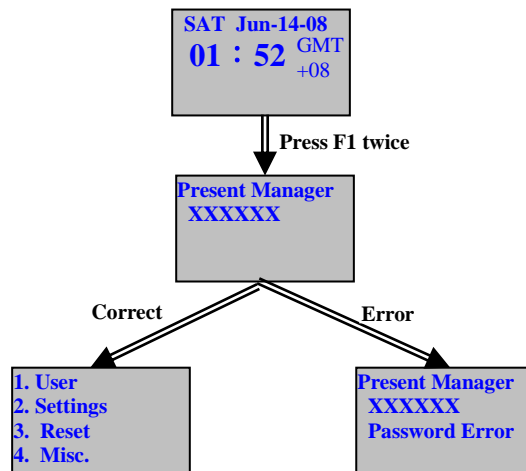
: Confirm

***** : Cancel

0 ~ **9** : Number key

5 Administrator Menu

Administrator menu allows new user registration and deletion, and system configuration. Press “F1” twice to enter. Default password is “111111” .



☞ Operation description :

- F1** Press F1 twice
- 0** ~ **9** Enter 6 digit password
default value is 111111
- #** Press #
- 0** ~ **9** Press 1~4 to select
- *** Press * to exit

☞ Function key description :

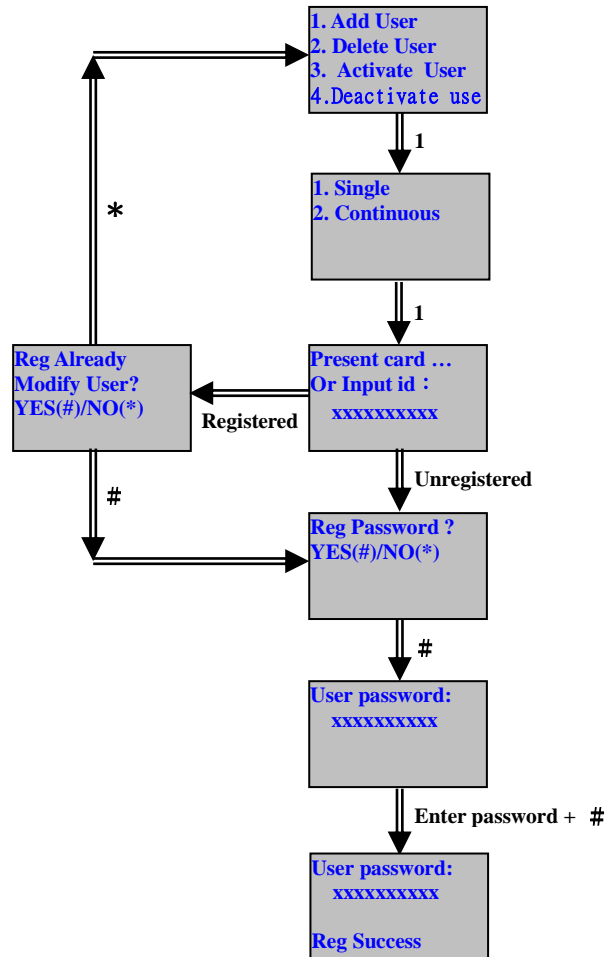
- F1** : Enter Administrator Mode/Page Up
- F2** : Page Down
- F3** : Delete (Backspace)
- F4** : No use
- #** : Confirm
- *** : Cancel
- 0** ~ **9** : Number key

5.1 User

5.1.1 Add User : register a new user

5.1.1.1 Single

5.1.1.1.1 Card + Password verify user



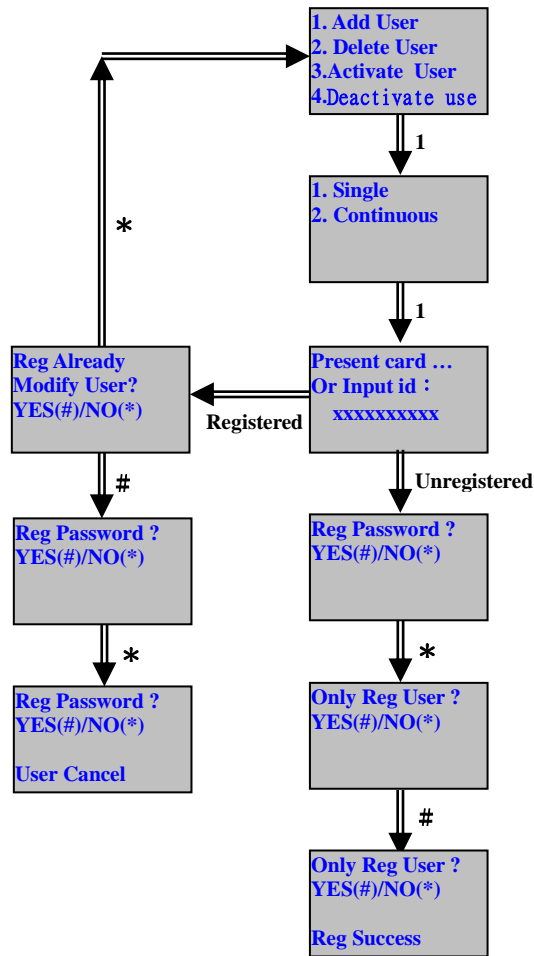
☞ Operation description :

- ~ Press 1
- ~ Press 1
- ~ Enter ID or Place sensor card on the coil
- Press #
- Press # to register password
- ~ Enter password 6~10 digit
- Press #

☞ Function key description :

- : Enter Administrator Mode/Page Up
- : Page Down
- : Delete (Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.1.1.1.2 Card verify user



☞ Operation description :

0 ~ **9** Press 1

0 ~ **9** Press 1

Place sensor card on the coil

***** Press ***** to cancel password register

Press **#** to confirm

☞ Function key description :

F1 : Enter Administrator Mode/Page Up

F2 : Page Down

F3 : Delete (Backspace)

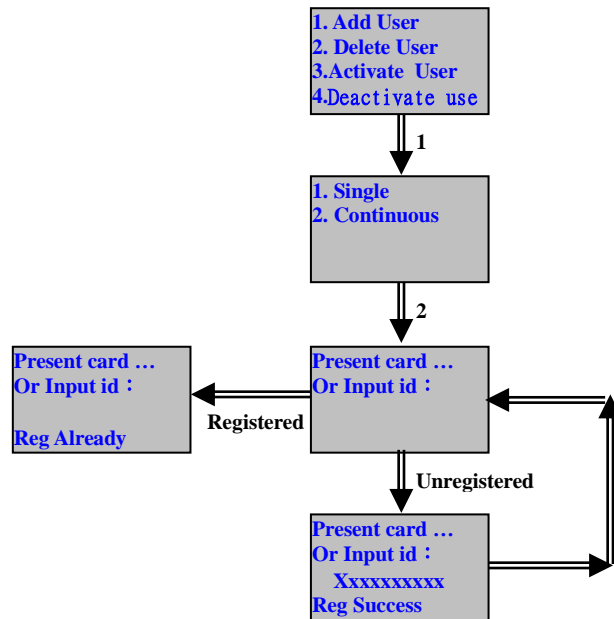
F4 : No use

: Confirm

***** : Cancel

0 ~ **9** : Number key

5.1.1.2 Continuous



☞ Operation description :

~ Press 1

~ Press 2

Place sensor card on the coil

☞ Function key description :

: Enter Administrator Mode/Page Up

: Page Down

: Delete (Backspace)

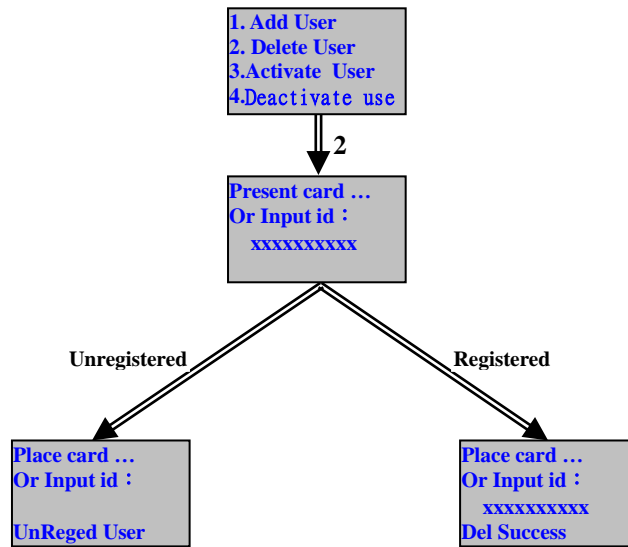
: No use

: Confirm

: Cancel

~ : Number key

5.1.2 Delete User : Del one registered user



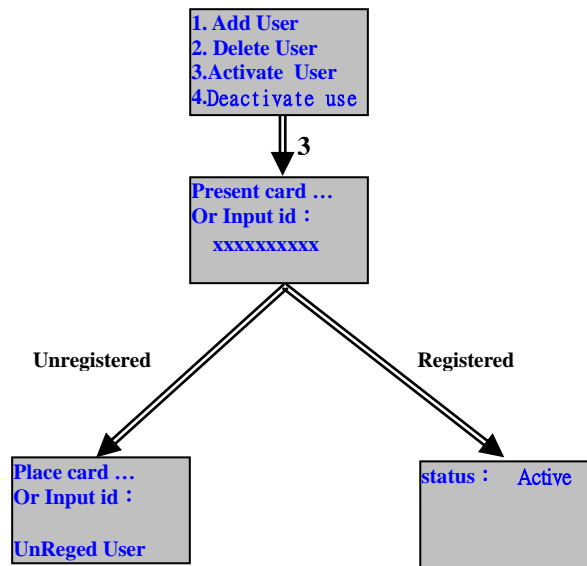
☞ Operation description :

- ~ Press 2
- ~ Enter ID or Place sensor card on the coil
- Press #

☞ Function key description :

- : Enter Administrator Mode/Page Up
- : Page Down
- : Delete (Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.1.3 Activate User : To enable authority of user for using MX60



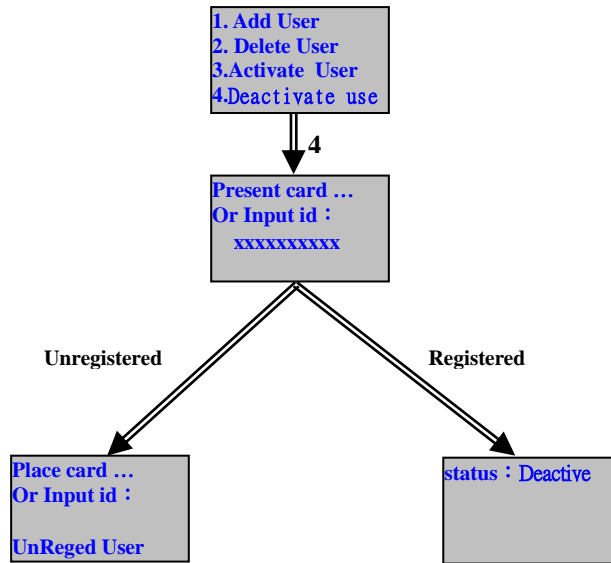
☞ Operation description :

- ~ Press 3
- ~ Enter ID or Place sensor card on the coil
- Press #

☞ Function key description :

- : Enter Administrator Mode/Page Up
- : Page Down
- : Delete (Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.1.4 Deactivate Use : To disenable authority of user for using MX60



☞ **Operation description :**

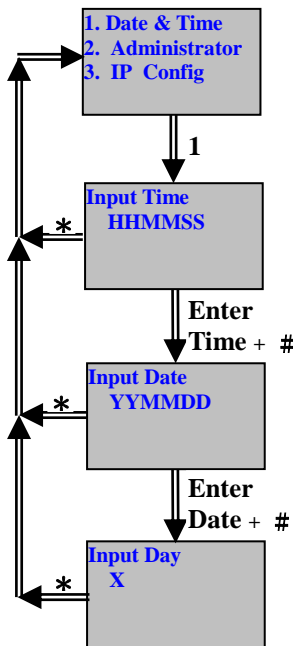
- 0** ~ **9** Press 4
- 0** ~ **9** Enter ID or Place sensor card on the coil
- #** Press #

☞ **Function key description :**

- F1** : Enter Administrator Mode/Page Up
- F2** : Page Down
- F3** : Delete (Backspace)
- F4** : No use
- #** : Confirm
- *** : Cancel
- 0** ~ **9** : Number key

5.2 Settings

5.2.1 Date & Time: Set time, date and week of MX60



Operation description :

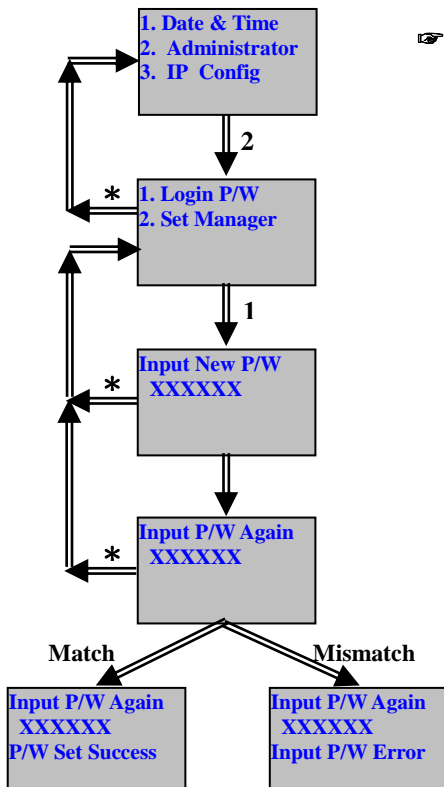
- ~ Press 1
- ~ Enter time HHMMSS
- Press #
- ~ Enter date YYYYMMDD
- Press #
- ~ Enter week 1~7 Means MON~SUN
- Press #

Function key description :

- : Enter Administrator Mode Page Up
- : Page Down
- : Delete (Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.2.2 Administrator

5.2.2.1 Login P/W : Change manager's password



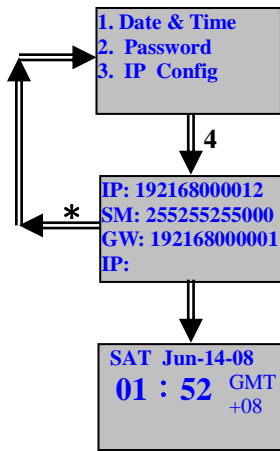
Operation description :

- ~ Press 2
- ~ Enter 6 digits password
- Press #
- ~ Enter 6 digits password
- Press #

Function key description :

- : Enter Administrator Mode Page Up
- : Page Down
- : Delete(Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.2.3 IP Config: Set IP data of MX60



☞ Operation description :

- ~ Press 3
- ~ Enter IP、Subnet mask、Gateway
- Press #

Note :

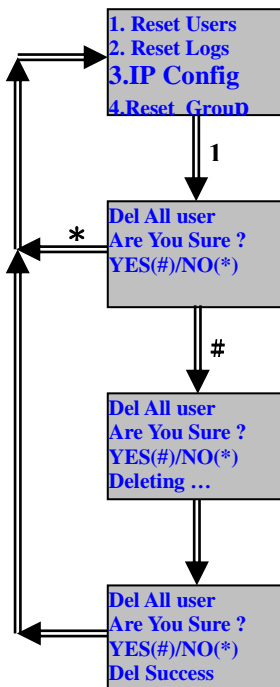
The format of IP、subnet mask and gateway are as follow
 If you want to set IP as 192.168.0.12 then enter 192168000012
 If you want to set subnet mask as 255.255.255.0 then enter 255255255000
 If you want to set gateway as 192.168.0.1 then enter 192168000001

☞ Function key description :

- : Enter Administrator Mode Page Up
- : Page Down
- : Delete(Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.3 Reset

5.3.1 Reset Users : Delete all registered users



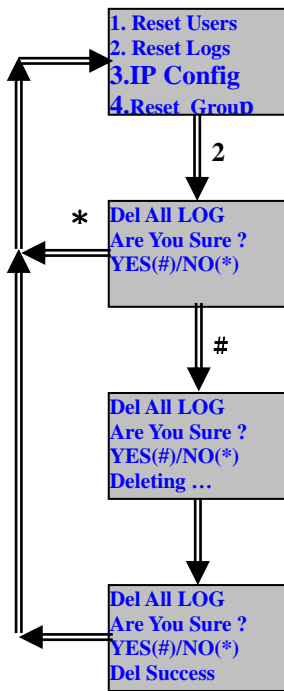
☞ Operation description :

- ~ Press 1
- Press #

☞ Function key description :

- : Enter Administrator Mode Page Up
- : Page Down
- : Delete (Backspace)
- : No use
- : Confirm
- : Cancel
- ~ : Number key

5.3.2 Reset Logs : Delete all logs



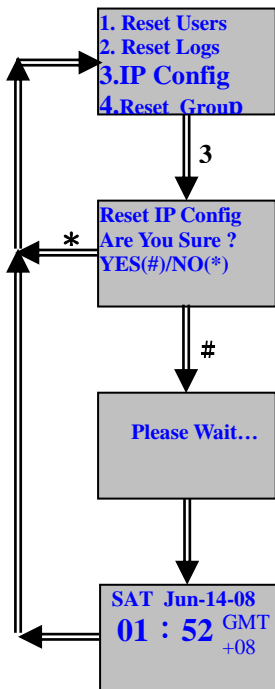
☞ Operation description :

0 ~ **9** Press 2
Press

☞ Function key description :

F1 : Enter Administrator Mode
Page Up
F2 : Page Down
F3 : Delete (Backspace)
F4 : No use
: Confirm
***** : Cancel
0 ~ **9** : Number key

5.3.3 IP Config : Reset IP to factory default



☞ Operation description :

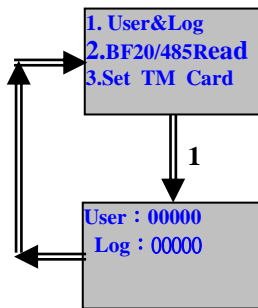
0 ~ **9** Press 3
Press

☞ Function key description :

F1 : Enter Administrator Mode
Page Up
F2 : Page Down
F3 : Delete (Backspace)
F4 : No use
: Confirm
***** : Cancel
0 ~ **9** : Number key

5.4 Misc.

5.4.1 User&Log : Display total number of registered users and total number of logs



☞ Operation description :

~ Press 1

☞ Function key description :

: Enter Administrator Mode
Page Up

: Page Down

: Delete (Backspace)

: No use

: Confirm

: Cancel

~ : Number key

6 Specifications

6.1 Module Features

- CPU board
- LCD and Keypad board

6.2 Power Supply

6.2.1 Voltage

- +9V to +30V DC

6.2.2 Current

- Average: 600mA, 12V
- Maximum power consumption: 800mA, 12V

6.3 Environment

6.3.1 Temperature and humidity

- Operating temperature: 0°C to 55°C
- Storage temperature: -20°C to 70°C
- Operating humidity: 0% to 90%
- Storage humidity: 0% to 905%

6.3.2 Immunity to electro static discharge

- Serial port 15kv ESD °
- Ethernet port 1.5kv °

6.4 Communication

- 1 RJ-45 port(10/100M) for management
- 1 wiegand output
- 1 RS-485 port meet RS485 specifications

6.5 Drivers

- Door Relay * 1
- Door bell * 1
- Exit button contact * 1
- Emergency contact * 1 (For fire alarm)
- Case open alarm * 1

6.6 Capacity

- 950 persons with 1 card/1 password per person.

6.7 Log entry memory

- 32768 log entries total.

6.8 Size(yet to be set)

- CPU board: 109 mm (H) X 82 mm(W)
- LCD and Keypad board: 106 mm (H) X 82 mm (W)
- MX60: 125 mm(H) X 145 mm(W) X 33 mm(D)

6.9 Weight

- 300g

6.10 Authentication time

- Average : shorter than 1 second.

6.11 Input

- 10 number keys + 6 function keys + 1 door bell key

6.12 Display

- 1 Buzzer
- 1 LCD: 128 X 64 pixels
- 4 LED