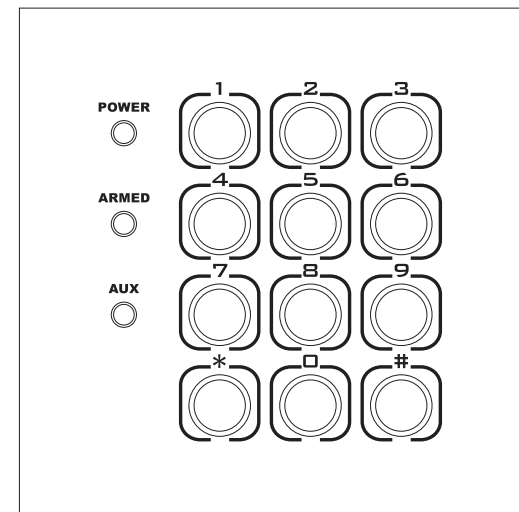# MEM-KP01

DIGITAL KEYPAD

USER MANUAL

(Read the instruction carefully before Operation)

Introduction

Power Source Input:
Connecting with AC/DC12-24V power supply.

Door Release Button:
Connecting with (N.O.) button to control the Electric Lock Output.

Magnetic Door Sensor (REED):
Connecting with a (N.C.) magnetic door sensor (REED). If the door
is broken in or is opened for a period longer than the setting time,
there will be an alarm.

Tamper Button:
A normally closed (N.C.) button locating on the rear for resisting
tamper. There will be an alarm as it is activated.

Alarm Output:
Labeled as (AL OUT), the maximum output loading is DC12V/ 500mA,
connected with a siren or a flashlight as an alarm.

Electric Lock Output:
A relay output which is connecting with a fail-secure (N.O.) or fail-safe
(N.C.) electric lock (Max. 24V/3A)

Auxiliary Password Output:
A relay output which is connecting with a security system(Max. 24V/3A)

LED indicators

Power (Red / Yellow)
Red indicates the normal state. Yellow indicates the programming mode

Armed (Green)
Green indicates activated lock output. Flashing indicates that the
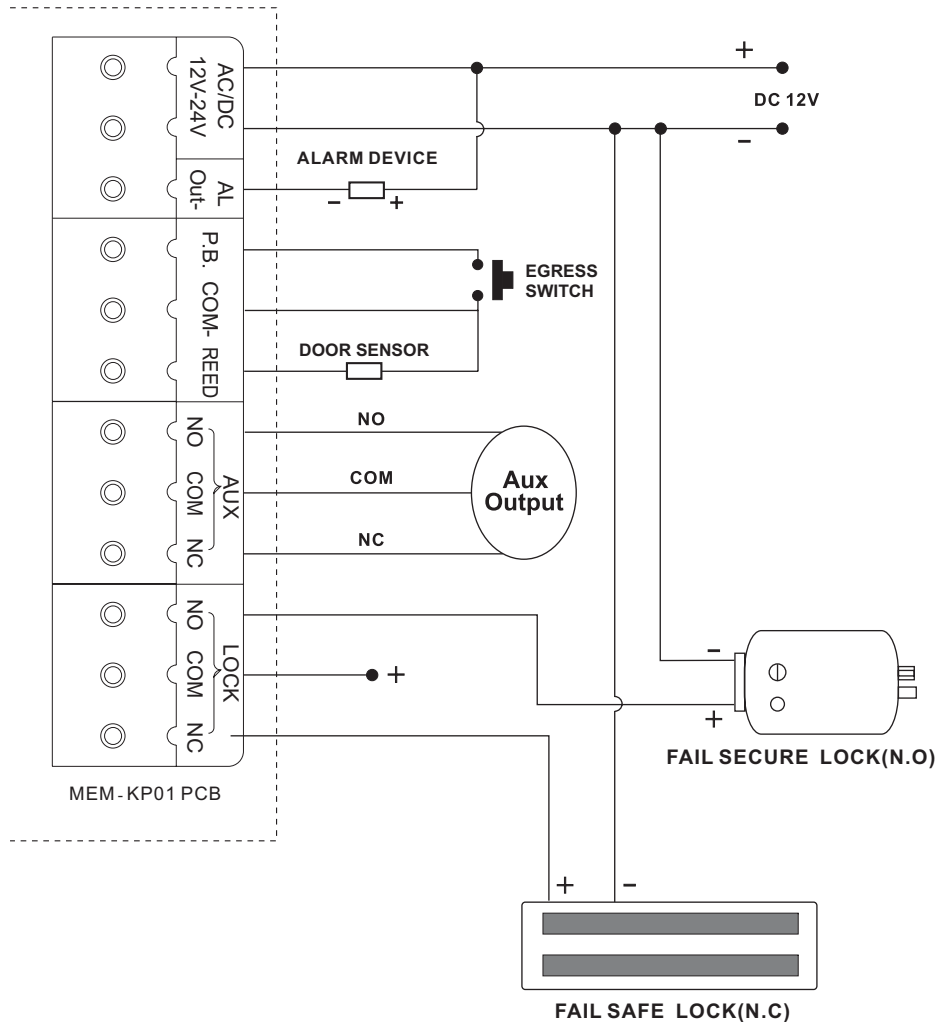magnetic door sensor is triggered or there is an alarm output

Auxiliary (Yellow)
Yellow indicates activated auxiliary relay output

Back View:

Tamper CDS

System reset jumper

If use Door-states
monitor function
remove the jumper
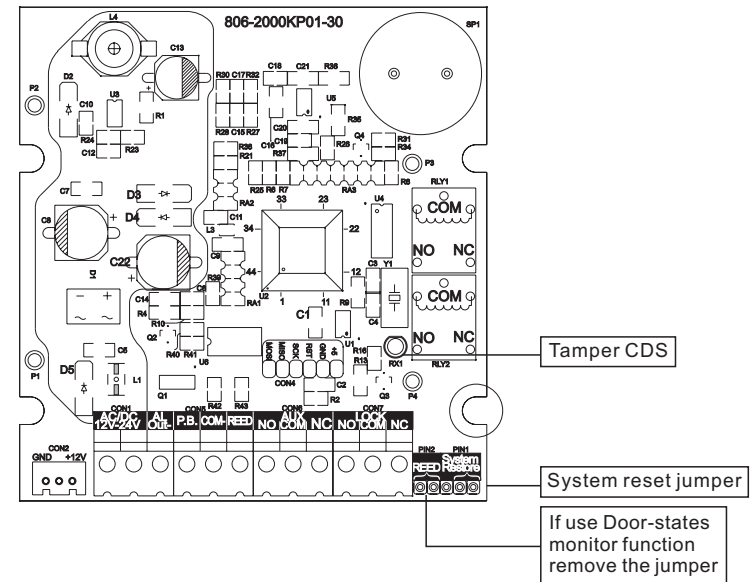
Connection With Electric Locks:

```
                              +
   ┌─────────────┐            
   │ AC/DC        │           DC 12V
   │ 12V-24V      │            
   │              │            ─
   │ AL           ├─ ALARM DEVICE
   │ Out-         │   ─▭+
   │              │            
   │ P.B. COM-    ├─ EGRESS SWITCH
   │ REED         ├─ DOOR SENSOR
   │              │   ▭
   │ NO           ├─ NO
   │ COM AUX      ├─ COM   Aux Output
   │ NC           ├─ NC
   │              │            
   │ NO           ├─ +
   │ COM LOCK     │            
   │ NC           │            
   └─────────────┘            
   MEM-KP01 PCB
```

FAIL SECURE LOCK(N.O)

FAIL SAFE LOCK(N.C)

[Notes: The keypad has to be in its normal state before entering the Programming Mode.]

(1) Program or change the master code: (Default = 1234)
MMMM MMMM *00 "code" #   MMMM = Master Code
                                 code = New Master Code (4-8 digits)

(2) Program or change user codes: (Default=01 User 3333)
 MMMM MMMM *XX "code" #   XX = Memory No. 01-19
                                 code = New User Code (4-8 digits)

(3) Program or change additional user codes:
MMMM MMMM *6YY "code" #   YY = Memory No. 20-99
                               code = New User Code (4-8 digits)

[Notes: The default code length of the system is four digits. The code length
 will be changed following the master code length is changed]

(4) Set lock output operating time: (Default = 5seconds)
MMMM MMMM *20 TT #   TT = 01-99 (seconds)
                                TT = 00 latch time
[Notes: The lock output operating time works with a door magnetic sensor. After entering
 a user code, if the door is being opened, the system will re-lock the door when the sensor
return to its original position. Otherwise, the door will be locked when the lock output time is due]

(5) Program or change the auxiliary code (Default = no auxiliary code)
MMMM MMMM *40 "code" #   code = New auxiliary Code (4-8 digits)

(6) Delete user codes:
MMMM MMMM *50 XX #   XX = Memory No. 01-99
                                XX = 00 Delete all User Codes

(7) Enable/Disable incorrect code protection: (Default = disable)
MMMM MMMM *51 #
[Notes: If incorrect code protection is enabled, the system will be locked for 30
seconds after entering 5 time incorrect password or 20 consecutive incorrect digits]

(8) Select operating mode:
MMMM MMMM *52 0#   0 = Normal Mode
MMMM MMMM *52 1#   1 = Latching Mode

[Normal Mode: Normal Operation, access entry by user password
Latching Mode: By entering the "latching code" the relay will latch
allowing free entry until the "latching code" is re-entered]

(9) Select incorrect code protection: (Default = 20 incorrect digits)
MMMM MMMM *53 0#   20 consecutive incorrect digits
MMMM MMMM *53 1#   5 time incorrect password

(10) Program the Latching Mode Starting Code:
MMMM MMMM *54 BBBB#   BBBB = Latching Mode Starting Code

(11) Set alarm output mode: (Default C = 0)
MMMM MMMM *55 C#
C = 0 to disable
C = 1 to enable door forced open detection for alarm output
C = 2 to tamper switch for alarm output
C = 3 to enable door forced open detection and tamper switch for alarm output

(12) Set alarm output time:
MMM MMMM *56 TTT#   TTT=001~999 (Seconds)
                          TTT=000 (Latch Mode)

(13) Select auxiliary output mode: (Default C = 7)
MMMM MMMM *57 C#
C = 0 to disable
C = 1 to enable door monitor for auxiliary output*
C = 2 to enable incorrect password for auxiliary output*
C = 3 to enable * or bell push button for auxiliary output*
C = 4 to tamper switch for alarm output*
C = 5 to enable door forced open detection for alarm output*
C = 6 to trigger P.B switch detection for enable door open
C = 7 to correct AUX password for enable door open

[Note: Enable function 1-5 must change the auxiliary output operating time more than 1 second. (DON'T setting timer 000 in the function 1-5, because it will lead the auxiliary output to a failure)]

(14) Set auxiliary output operating time: (Default = Latch Mode)
MMMM MMMM *58 TTT #   TTT = 001-999 (Seconds)
                         TTT = 000 (Latch mode)

(15) Restore system to factory setting:
      1. Disconnect from the power source
      2. Connect the System Restore jumper connection
      3. Reconnect with the power source, then the buzzer is activated
      4. Disconnect the System Restore jumper connection
      5. All settings and codes will be restored to default settings

[WARNING: After performing the above procedures, the system will delete all user codes, the master code and the auxiliary code. The keypad will be restored to its default settings]

■ Wiring diagram

Connect With"miTEC" MT-123 E-lock Power Supply