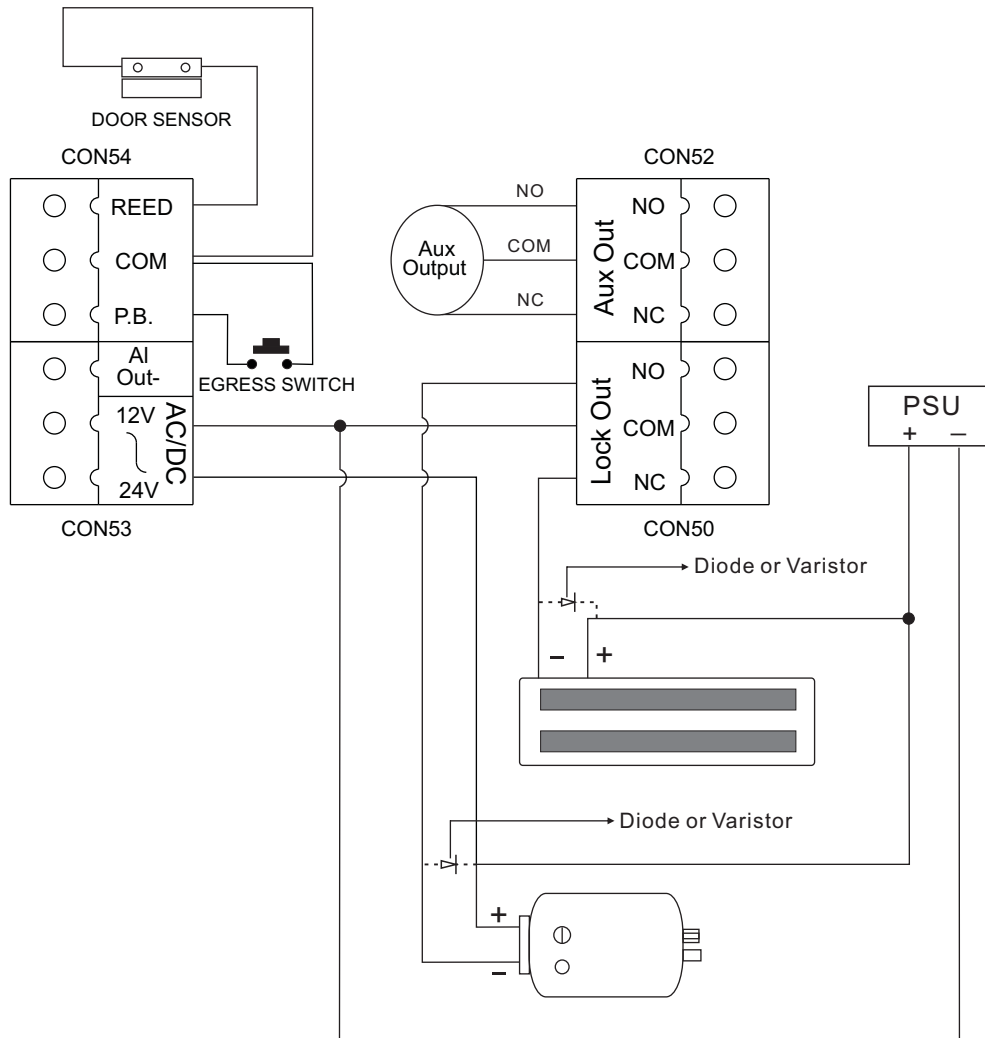


■ APPLICATION EXAMPLE BASIC WIRING:



A DC power supply is required for Fail-Safe locks  
 \*Either Diode or Varistor can be used

# FORTESSA FTK4

## DIGITAL KEYPAD

## USER MANUAL

Thank you for purchasing the FORTESSA FTK4 Digital Keypad.

Its Vandal resistant construction enables it to be used in many environments both internally and externally.

Designed with the contractor in mind the FTK4 digital keypad is simple to install yet boasts numerous additional features such as door monitoring, alarm signal output, door release input and auxiliary relay output.

The non-volatile memory also ensures all data programmed is not lost in the event of a power failure.



**(Read the instruction carefully before Operation)**

**Distributed by :**

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## ■ **FEATURES**

Zinc weatherproof Housing(IP-65)  
Glass Screen With Brightness Back-lit Keyboard  
Direct 12-24V AC/DC Operation  
99 User Codes in 4-8 Digits  
Operates Fail-safe or Fail-secure Locking Device  
Lock/Auxiliary Independent Outputs  
3 Amp Rating Relay Auxiliary Contact  
Door Forced Open and Propped-up Warnings  
All Features are Keyboard Programmable  
Non-volatile Memory in Power Failure  
Surface Mounting Box in 120(H) x 80(W) x 27(D)mm

## ■ **THE LED INDICATORS**

### **POWER(RED/AMBER)**

This is a status indicator, **Red** is the normal condition. **Amber** is in programming mode.

### **ARMED(GREEN)**

It lights up during the time that **Lock** output relay is active. Will flashing it in the door sensor opened or alarm function.

### **AUXILIARY(AMBER)**

It lights up during the time that **Auxiliary** output relay is active.

## ■ **IMPORTANT NOTES:**

1. Make sure the **User Code**, **Auxiliary code** and **Programming code**, are the same length. otherwise, code entry will not be accepted.
2. The system takes approximate 2 to 3 seconds to refresh itself for the new operation mode after the command code is entered. **DO NOT** enter any code during the system is being refreshed until the keypad back light is on.

## ■ **Specification:**

- Power Supply : 12 to 24V AC/DC
- Dimensions : 80W x 120H x 35.5Dmm
- Weight : 617g
- 12V Input:
  - Stand-By Current : 130mA Relay Contact
  - Operation Current : 229mA Rated
- 24V Input:
  - Stand-By Current : 58.6mA
  - Operation Current : 96.2mA

**Select Auxiliary Output mode.**

(Default = the programmed Auxiliary code used auxiliary output.)

MMMM, MMMM, \*57, C, # C = 0 disable

- C = 1 to enable door monitor with auxiliary output \*
- C = 2 to enable incorrect password with auxiliary output \*
- C = 3 to enable \* or bell push button with auxiliary output \*
- C = 4 to enable temper switch with auxiliary output \*
- C = 5 to enable door forced open detection with auxiliary output \*
- C = 6 to enable lock output detection with auxiliary output
- C = 7 to enable the programmed Auxiliary code used auxiliary output.

\* Note: To Enable the functions 1~5 you must change the operation time to more than second

**Set Alarm Output operating time.**

MMMM, MMMM, \*56, TTT, # TTT = 001 to 999 (seconds).

**Select Alarm output mode.**

MMMM, MMMM, \*55, C, #

- C = 0 disable
- C = 1 to enable door forced open detection with alarm output
- C = 2 to enable temper switch with alarm output
- C = 3 to enable door forced open and temper switch with alarm output

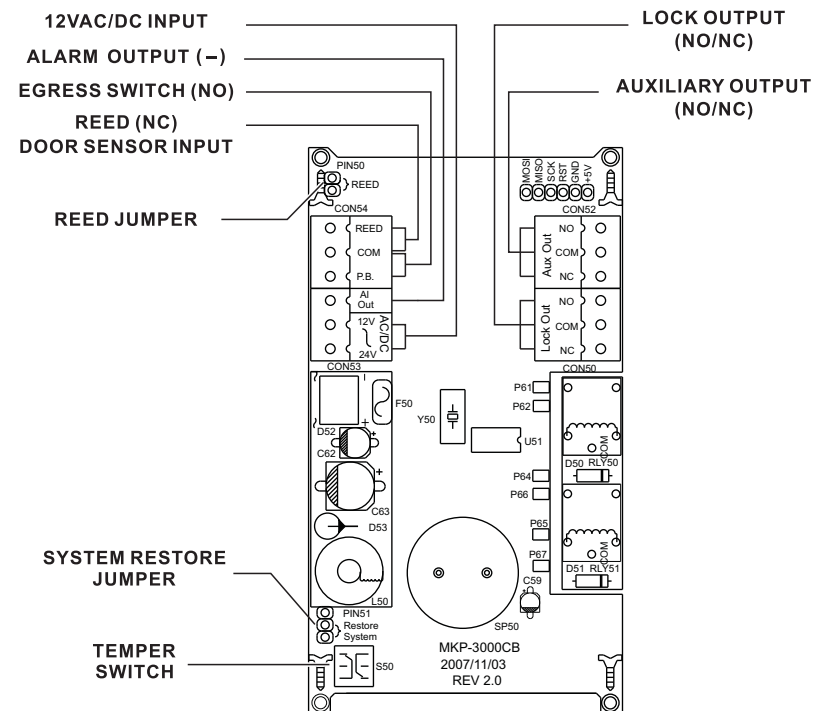
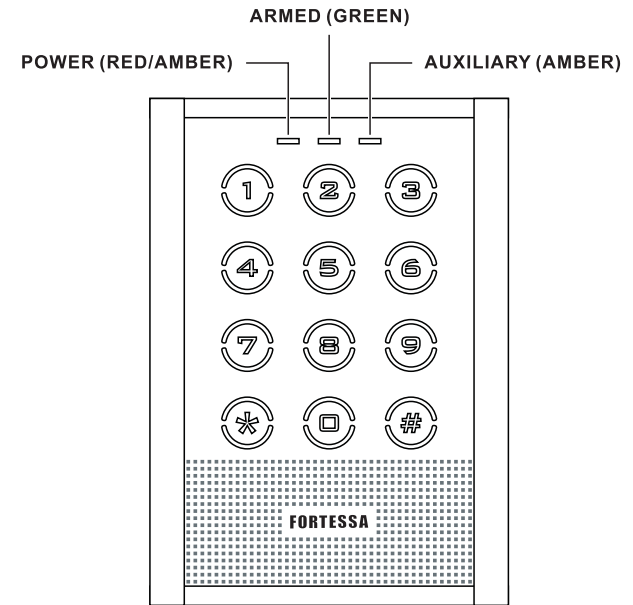
**Restore system to Factory-set.**

1. Disconnect power supply.
2. Remove the jumper to restore system position.
3. Reconnect power supply. (Buzzer is activated)
4. Put the jumper back to the original position.
5. All system setting and codes will back to Factory-set.

**WARNING:** Using these procedures the system will delete all user codes, the programming code, the Auxiliary code and reset all programming will back to their default setting.

**REED jumper** (default = jumper closed)

Note: enable only if your door has a reed switch is monitored. (reed jumper must be opened)



## ■ **TERMINAL DESCRIPTIONS**

### **12V~24V AC/DC**

AC12~24V or DC12~24V Volt input from the power supply.

### **ALARM OUTPUT (AI Out -)**

DC 12V 500mA (-) negative signaling circuit output to alarm device.

### **EGRESS INPUT (P.B.)**

The EGRESS INPUT can take a NO switch between P.B. and COM. When this input is activated the Lock Output will come on and remain on for the time that the EGRESS INPUT is on.

### **REED (Door sensor input)**

A normally closed (NC) input terminal referring to COM. with the help of a normally closed magnetic door switch. The system will monitor the position of the door and will give the following functions:

Note: enable only if your door has a reed switch is monitored. (Reed jumper must opened)

### **Door Automatic Reload Function**

When the REED input is used then the Automatic Reload Function can be used. The feature turns the Lock output off 1 second after the door is opened (not unlocked) when a user code or the EGRESS input has been used (no matter how long the time for Lock output operation time).

### **Door Forced Open**

A door forced open condition is defined by the situation where the door has been opened but a user code or EGRESS has not been used to gain access. When this condition occurs the Alarm output will activate and will remain active until the door is closed again.

### **AUXILIARY OUTPUT (Aux Out)**

3 Amp normally open (NO) or normally close (NC) relay output, operates when a Door Forced Open alarm, Auxiliary code, door chime point and temper switch condition occurs.

### **ELECTRIC LOCK OUTPUT (Lock Out)**

3 Amp relay output, The Lock Output relay is used to control the door locking/release mechanism. The relay can be programming as either normally open (NO) for fail secure applications (power applied to open door) or normally close (NC) for fail safe applications (power applied to lock door).

## ■ **PROGRAMMING SUMMARY**

Program or change the Programming Code. (Default = 1234)

MMMM, MMMM, \*00"code", #      MMMM = Programming code  
code = New Programming Code (4 to 8 digits)

**Program or change the User Code.** (Default = 01 User 333)

MMMM, MMMM, \*XX"code", #      XX = Memory No. 01-19  
Code = New User Code (4 to 8 digits)

Or

MMMM, MMMM, \*6YY"code", #      YY = Memory No.20-99  
code=New User Code(4 to 8 digits)

**Set Lock Output operating time.** (Default = 5 seconds)

MMMM, MMMM, \*20TT, #      TT = 01 to 99 (seconds).  
TT = 00 latch mode

**Delete a User Code.**

MMMM, MMMM, \*50XX, #      XX = Memory No.01-99  
XX = 00 Delete all User Codes and the 01 user with back default code.

**Enable/Disable incorrect codes protect.** (Default = disable)

MMMM, MMMM, \*51, #

Note:Enable incorrect codes protect. The System will be locked for 30 seconds after 5 time password incorrect or 20 consecutive incorrect digits to default programming code or user code.

**Select incorrect codes protect.** (Default = 20 incorrect digits)

MMMM, MMMM, \*53, 0, #      20 consecutive incorrect digits  
MMMM, MMMM, \*53, 1, #      5 time password incorrect

**Program or change the Auxiliary Code.** (Default = No Auxiliary Code programmed)

MMMM, MMMM, \*40"code", #      code = New Auxiliary Code (4 to 8 digits)

**Set Auxiliary Output operating time.** (default = latch mode)

MMMM, MMMM, \*58, TTT, #      TTT = 001 to 999 (Seconds)  
TTT = 000 (latch mode)