

MAK-21

ACCESS KEYPAD

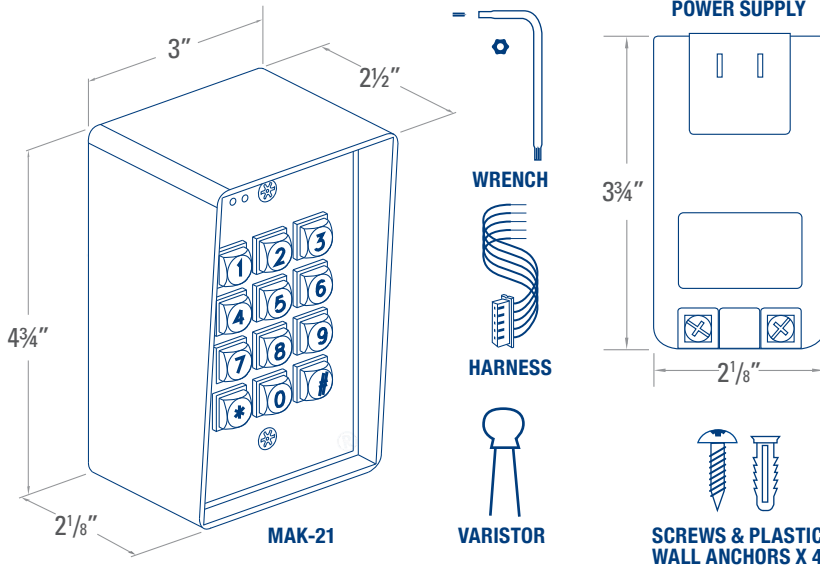


INSTRUCTION MANUAL

Specifications:

- Operating Voltage is 12 VDC
- Current Draw: Average 15 ma, Peak 100 ma @ 12 VDC
- Relays Electric Current: 2A Max @ 30 VDC : 4A @ 120 VAC
- Optimal Operating Temperature: -20 to +70 °C (-4 to +158 °F)
- Factory Master Code: 1234
- Invalid Code Lock Out: The system will shut down for 60 seconds after 30 incorrect master or entry codes are attempted.

Dimensions & Contents



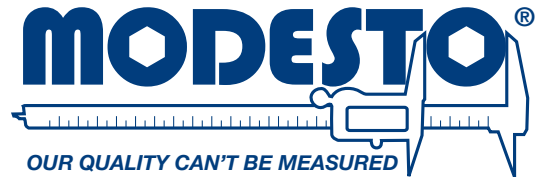
System Signals

SOUND SIGNAL

- 1 Beep: Correct PIN Codes, Any Key Pressed
- 2 Beeps: Entering or exiting from Programming mode
- 3 Beeps: Error
- 5 Beeps: Master Code Reset
- 5 Beeps, followed by 5 more beeps: Successful System Reset

LED SIGNAL

- Green LED: Power On, Stand-by
- Red LED: Relay 1 Activated
- Yellow LED: Relay 2 Activated



Installation and Wiring Instructions & Diagrams

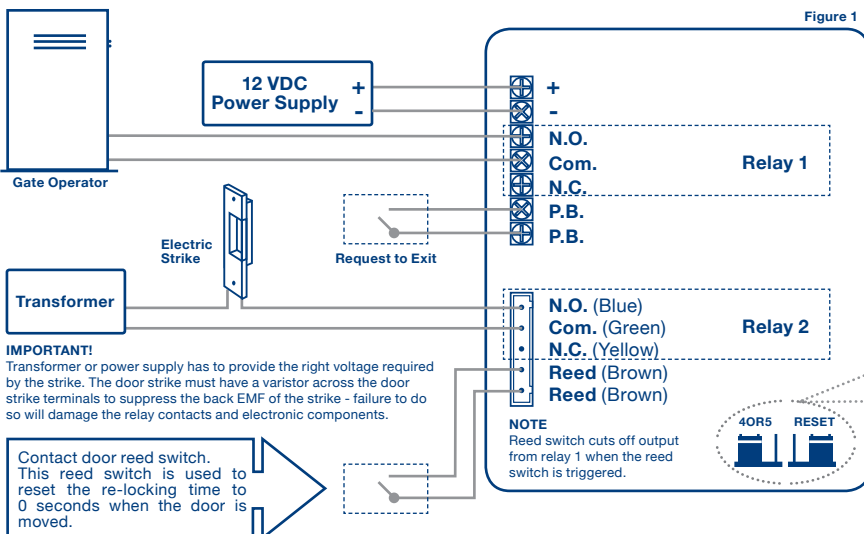
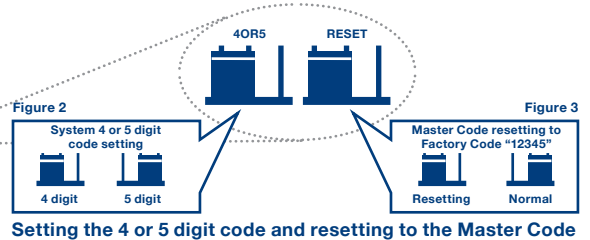


Figure 1



Quick Programming Guide

Step 1

ENTER PROGRAMMING MODE
Press **1 2 3 4 1 2 3 4**
(You will hear two beeps)

NOTE: If after 60 seconds, you do not enter any codes or data, the system will automatically exit from programming mode.

Step 2

ADDING RELAY 1 MOMENTARY ENTRY CODE(S)
You have up to 20 entry code slots from (*01 to *20)
To program one entry code, you enter the entry code slot, followed by the four digit entry code.
(You will hear a beep after every entry)

Example A: To program entry code 5555 to relay 1
Press *** 0 1** [beep] **5 5 5 5** [beep]

Example B: To program entry code 5894 to relay 1
Press *** 0 2** [beep] **5 8 9 4** [beep]

Step 3

EXITING PROGRAMMING MODE
Press **#** to exit programming
(You will hear two beeps)

Complete Programming Guide

ENTER PROGRAMMING MODE
Press **1 2 3 4 1 2 3 4**
(You will hear two beeps)

NOTE: If after 60 seconds, you do not enter any codes or data, the system will automatically exit from programming mode.

EXITING PROGRAMMING MODE
Press **#** to exit programming
(You will hear two beeps)

ENTERING ENTRY CODES FOR RELAY 1

- Enter Programming Mode (You will hear two beeps).
- Enter the entry code slot choose, between *01 to *20 (You will hear one beep).
- Enter the 4 digit or 5 digit code of your choice (You will hear one beep).
(You cannot use codes 0000, 00000, 1234, 12345, or the master code as any entry code.)
- Repeat for additional codes
- Press # to exit (You will hear two beeps).

ENTERING ENTRY CODE FOR RELAY 2

- Enter Programming Mode (You will hear two beeps).
- Enter *21 (You will hear one beep) (You can only have one code on relay 2).
- Enter the 4 digit or 5 digit code of your choice (You will hear one beep).
(You cannot use codes 0000, 00000, 1234, 12345, or the master code as any entry code.)
- Press # to exit (You will hear two beeps).

DELETING ENTRY CODES

- Enter Programming Mode (You will hear two beeps).
- Enter the entry code slot you want to delete followed by 0000
(You will hear one beep).

Example: To delete the entry code in slot 06 you would enter: *06 and then 0000 [beep]

- Press # to exit (You will hear two beeps).

Other Programming Options

PROGRAMMING RELAY 1 STRIKE TIME

- Enter Programming Mode [two beeps]
- Enter *30 [beep]
- Enter the number of seconds you want the relay to remain active (01-99 seconds) [beep]
- Press # to exit [two beeps]

PROGRAMMING RELAY 2 STRIKE TIME

- Enter Programming Mode [two beeps]
- Enter *31 [beep]
- Enter the number of seconds you want the relay to remain active (01-99 seconds) [beep]
- Press # to exit [two beeps]

RESET TO DEFAULT MASTER CODE

- Open keypad
- Locate jumper labeled RESET
- Move jumper to the resetting position as shown in Figure 3.
- You will hear 5 beeps to indicate a successful reset.
- Once reset is successful, return jumper to the normal position as shown in Figure 3.

SETTING RELAY 1 AS A LATCH RELAY

- Enter Programming Mode [two beeps]
- Enter *30 [beep]
- Enter 00 [beep]
- Press # to exit [two beeps]

SETTING RELAY 2 AS A LATCH RELAY

- Enter Programming Mode [two beeps]
- Enter *31 [beep]
- Enter 00 [beep]
- Press # to exit [two beeps]

CHANGING THE MASTER CODE

- Enter Programming Mode [two beeps]
- Enter *00 [beep]
- Enter the new 4 digit master code [beep]
- Press # to exit [two beeps]

SETTING KEYPAD TO USE 5 DIGIT ENTRY CODES

- Open keypad
- Locate 4OR5 jumper.
- Set jumper to the appropriate digit setting as shown in Figure 2.

COMPLETE RESET OF KEYPAD

- Open keypad
- Locate jumper labeled RESET
- Move jumper to the resetting position as shown in Figure 3.
- You will hear 5 beeps, wait 5 more seconds and then you will hear 5 more beeps.
- Keypad has been successfully reset, return jumper to the normal position as shown in Figure 3.



WARRANTY: This product is warranted against defects in material and workmanship while used in normal service for a period of 1 year from the date of sale to the original customer.