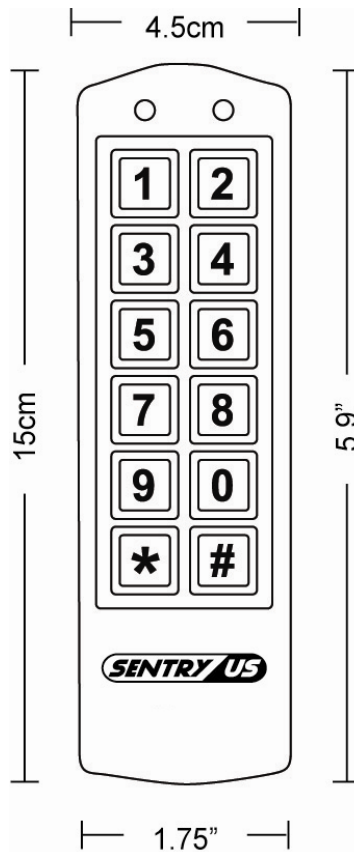


Instruction Manual

Stand-Alone Access Control Slim Type Keypad with Built-in EM Reader



ACS45K-EM

⚠ Please read the Operational Manual before attempting to use this product.

Instruction manual subject to change without prior notice from the manufacturer.

Locks, cards, sensor and power adaptor not included.

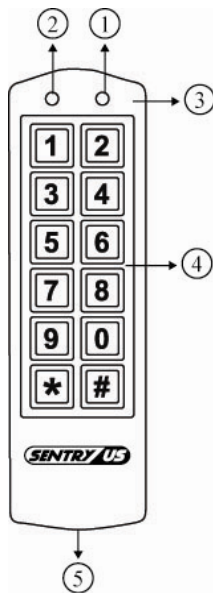
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Features

- Outdoor, water resistant
- IP65 rating
- 125KHz Frequency
- 1.97” Effective distance
- Up to 1000 password & card holders
- Digital keypad operation
- Built-in pickproof function
- Watchdog timer, powerful reboot & self-recovery watchdog
- Dual relay outputs, 0~99 sec unlock output delay time
- 12V~15V DC, 150mA
- 1.75” x 5.9” x 0.87”

Keypad Description

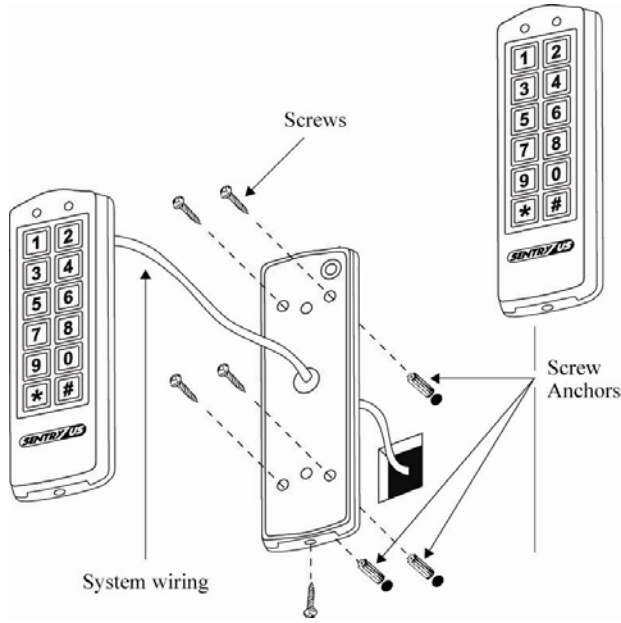


No.	Description
①	Mode Indicators Yellow, Red, Green
②	Door Indicators
③	Antenna
④	Matrix Keypad
⑤	Vandal Proof Case Screw

Mounting Installation

(Note: Before mounting, decide first where to mount the keypad.)

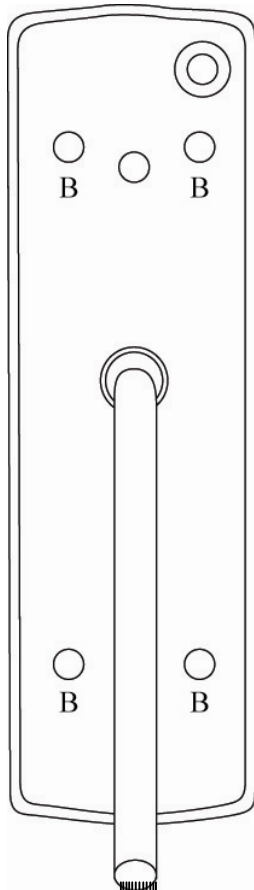
1. Open the control keypad by removing the screw at the bottom using the provided torque wrench.
 2. Punch the necessary holes at the back template for the screws.
 3. Using the back template as a guide, drill the holes for the screws and system wiring (make a bigger hole for the system wiring).
- Note: Level the back template*
4. Draw out the system wiring through the center hole of the back template.
 5. Mount the back template using the screws provided.
 6. Mount the front panel using the torque wrench.
 7. Connect system wiring (see System Wiring Diagram and System Wiring Connections).



System Wiring Diagram

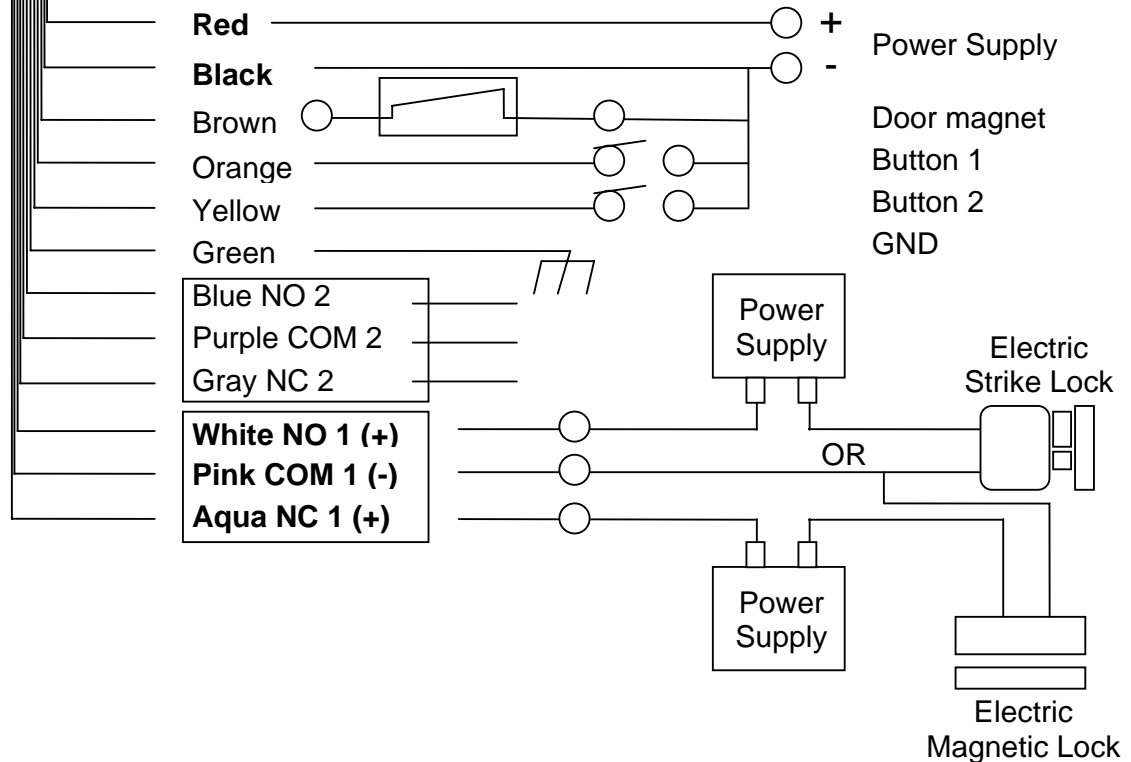
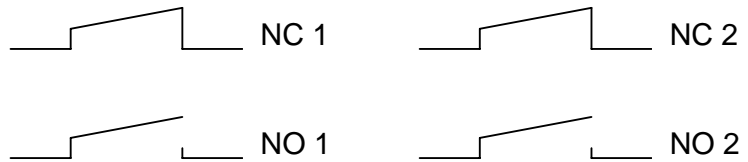
Note: White NO 1: For Electric Strike Lock
 Aqua NC 1: For Electric Magnetic Lock

Please make sure you are using one of the two locks.



- Red** = Power Positive (+) 12V~15V DC
- Black** = Power Negative (-)
- White** = Normally Open: N/O **Electric Door Strike Lock**
- Pink** = Common - Relay
- Aqua** = Normally Close N/C **Magnetic Lock**
- Brown = Door Status Detection (See * on page 5 for DSD)
- Orange = Unlocking Button 1
- Yellow = Unlocking Button 2

Note: The first 4 wires (bolded) are the most important.



System Wiring Connections

Connecting to Power:

Connect the **Red** to power positive (+).
Connect the **Black** to power negative (-).

Connecting to Locks (two options):

Option 1: Using a Strike Lock

Connect the **White** to power positive (+).
Connect the **Pink** to the Strike lock power positive (+) or the normally open (NO).
Connect the Strike lock power negative (-) to the power negative (-).

Option 2: Using a Magnetic Lock

Connect the **Aqua** to power positive (+).
Connect the **Pink** to the Magnetic lock power positive (+) or the normally close (NC).
Connect the Magnetic lock power negative (-) to the power negative (-).

Connecting an Unlocking Button to Open the Door from the Inside:

Connect the **Orange** to the button NO for Strike lock or NC for Magnetic lock.
Connect the button negative (-) or common to power negative (-).

Connecting to Button 2:

Connect the **Yellow** to the button NO for Strike lock or NC for Magnetic lock.
Connect the button negative (-) to power (-).

Connecting the Door Status Detection:

Connect the **Brown** to the sensor positive (+).
Connect the sensor negative (-) to power negative (-).

* The **Door Status Detection (DSD)** will automatically lock the door once a connection is detected. When a person comes in, it will not wait for the delay time to lock the door but locks it automatically when connection is detected. This is a good way to prevent someone coming in from behind a person who has access.

Programming

* All programming need to go to **Setup Mode** first.

The **Factory Default Programming Code** is **1 2 3 4 5** .

To enter **Setup Mode** press Programming Code twice.

(ex: **1 2 3 4 5 1 2 3 4 5**) The *mode* indicator will turn yellow.

To exit or quit from the **Setup Mode**, press **#** .

Changing Programming Code:

1

In **Setup Mode**, press ***** and **3** . The *mode* indicator will flash yellow.

2 ↓

Enter new Programming Code twice.

(ex: **5 6 7 8 9 5 6 7 8 9**) A long beep means Programming Code was changed. Please remember your new programming code.

3 ↓

Exit **Setup Mode**.

Restoring the Programming Code to its factory default (only if you cannot remember your new programming code):

1

Turn off control keypad power.

2 ↓

While pressing **#** , turn on the power of the control keypad. A long beep means Programming Code factory default was restored.

(Programming Code: **1 2 3 4 5**).

3 ↓

Exit **Setup Mode**.

Adding a User

1

In **Setup Mode**, press ***** and **0** . The *mode* indicator will flash yellow.

2 ↓

Press **0** and **1** . The *mode* indicator will turn yellow.

3 ↓

Enter User number (from 000-999, ex: **0 0 1**). The *mode* indicator will flash yellow. If the User number that was entered exist, *door* indicator will turn red (to remove that User, press ***** twice; the *door* indicator will turn green).

4 ↓

Enter User 5 digit code (ex: **1 1 1 1 1**). A long beep means new User was added. To add another User, repeat step 3 and 4.

5 ↓

Exit **Setup Mode**.

Removing All User and Codes (and cards if also installed):

1

In **Setup Mode**, press ***** and **8**. The *mode* indicator will flash yellow.

2 ↓

Press **8** twice, a long beep means all Users and their Codes were removed (except Programming Code).

3 ↓

Exit **Setup Mode**.

Changing the Unlock Delay Time

1

In **Setup Mode**, press ***** and **1**. The *mode* indicator will flash yellow.

2 ↓

Enter unlocking delay time from 00 to 99 (ex: **1 0** means ten seconds delay time before it locks). A long beep means unlock delay time was adjusted.

3 ↓

Exit **Setup Mode**.

Restoring Factory Default:

1

In **Setup Mode**, press ***** and **8**. The *mode* indicator will flash yellow.

2 ↓

Press **9** twice. A long beep means factory default was restored.

3 ↓

Exit **Setup Mode**.

Pickproof Alarm:

To turn on:

1

In **Setup Mode**, press ***** and **6**. The *mode* indicator will flash yellow.

2 ↓

Press **0** and **2**. A long beep will sound and the *mode* indicator will turn yellow to indicate that pickproof alarm was turned on.

3 ↓

Exit **Setup Mode**.

To turn off:

1

In **Setup Mode**, press ***** and **6**. The *mode* indicator will flash yellow.

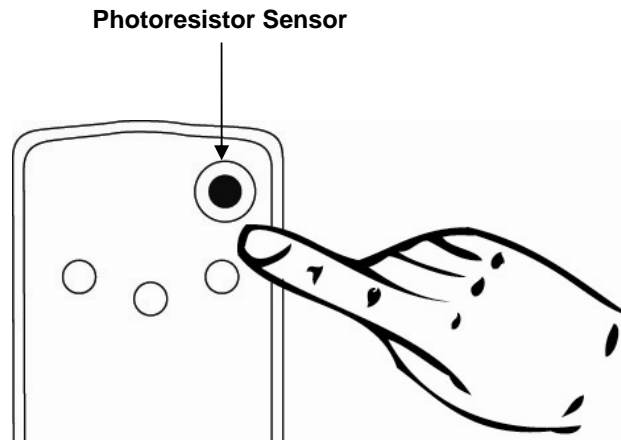
2 ↓

Press **0** and **1**. A long beep will sound and the *mode* indicator will turn yellow to indicate that pickproof alarm was turned off.

3 ↓

Exit **Setup Mode**.

*Note: If the **photoresistor** is directly exposed into the light, a buzzing sound will be heard. It will only stop upon removing the light exposed directly to the photoresistor, the Programming Code was pressed or after 60 seconds.*



Other Features

Note: It is advisable to install the Master Card first before installing any User Cards

Master Card:

To install the Master Card:

1. In **Setup Mode**, press ***** and **7**. The *mode* indicator will flash green. If the *mode* indicator turns green, a Master Card is already stored. To remove, press ***** twice.
2. Swipe Master card. A long beep means master card was installed.
3. Exit **Setup Mode**.

Using the Master Card to enter and exit **Setup Mode**:

1. Swipe Master Card. A long beep will sound and the *mode* indicator will flash yellow. This means that you are in **Setup Mode**.
2. Exit Setup Mode by swiping Master Card again. Three rapid beeps and the *mode* indicator will turn green means that you have exited from **Setup Mode**.

Adding a User Card:

1. In **Setup Mode**, press ***** and **0**. The *mode* indicator will flash yellow.
2. Press **0** and **0**. The *mode* indicator will turn yellow.
3. Enter User number (from 000-999, ex: **001**). The *mode* indicator will flash yellow. If the User number that was entered exist, the *door* indicator will turn red (to remove press ***** twice, the *door* indicator will turn green)
4. Swipe User card. A long beep means new User card was added. To add another User card, repeat step 3 to 4.
5. Exit **Setup Mode**.

Adding a User Using Combination Mode (Card and Code):

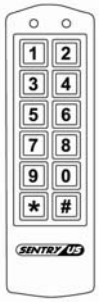


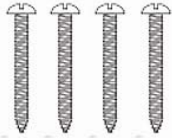
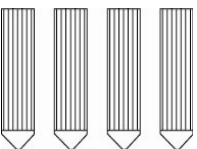


1. In **Setup Mode**, press ***** and **0**. The *mode* indicator will flash yellow.
2. Press **0** and **2**. The *mode* indicator will turn yellow.
3. Enter User number (from 000-999, ex: **001**). The *mode* indicator will flash yellow. If the User number that was entered exist, the *door* indicator will turn red (to remove press ***** twice. The *door* indicator will turn green).
4. Swipe User card and Press the 5-digit code (ex: **11111**). A long beep means User card was added. To add another User using combination mode, repeat step 3 and 4.
5. Exit **Setup Mode**.

Specifications

Model	ACS45K-EM
Total Number of Passwords	1000
EM Reader Frequency	125 KHz
Card Effective Distance	1.97" / 5cm
Power Consumption	12V~15V DC, 150mA
Unlock Delay Time	0~99 sec
IP Rating	65
Dimension	1.75"(W) x 5.9"(H) x 0.87"(D) 15cm(W) x 4.5cm(H) x 2cm(D)

* Specifications are subject to change without notice.

Package Contents

			
One (1) Access Control Panel	One (1) Mounting Plate	One (1) Short Screw	Four (4) Long Screws
			
Four (4) Wall Anchors	One (1) Torque Wrench	One (1) Instruction Manual	

*For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

Caution :

- Do not connect this device to any power source other than what is supplied.
- Do not handle the unit with wet hands.
- The unit is weatherproof, not waterproof. Do not install in areas where it may be exposed to rain constantly.

Other Related Product Options

A. Buzzer



- Can be programmed 1~10 sec, recommend 5 sec.
- 5V~14V DC

Buzzer Connection:

1. Connect the buzzer positive (+) to lock (magnetic or strike) positive (+)
2. Connect the buzzer negative (-) to power negative (-)

B-1. 2-CH Wireless RF Receiver & Remote



RF Receiver

+



Single Button

OR



2 Button

B-2. 2-CH Wireless RF Receiver & Desktop RF Transmitter



Error! Not a valid li.....⁺

RF Receiver

RF Transmitter

C. Door Bell Station w/ Color IR Camera & 7" Color Monitor Station w/ Door Buzzer Button



Door Bell Station w/
Color IR Camera
SS-NC-DS2

+



7" Color Monitor Station
w/ Door Buzzer Button
SS-NC-DS2

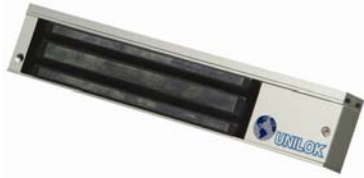
+



Power Supply w/ 16
Power Cord
SS-AC-POWERDC

Recommended Lock Systems

A. Magnetic Lock with LED



- Available in 600 lbs and 1200 lbs

B. Electric Door Strikes for Metal Door



- Jaw Strength: 2000 lbs
- 12V DC

C. Electric Door Strikes for Wood Door



- Jaw Strength: 2000 lbs
- 12V DC