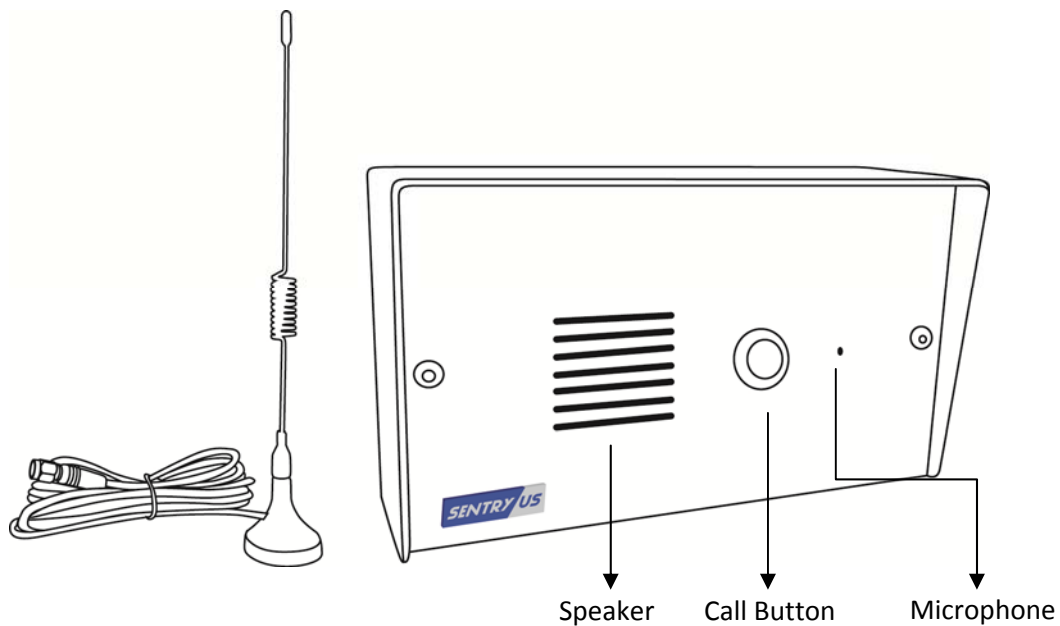


GSM Door / Gate Intercom Entry System

For Single Unit

GSM-DE3100



Optional Accessories: See page 17



DE-H1 Outdoor Housing



DE-H2 Outdoor Housing
with Access Control Keypad



DE-H2 Outdoor Housing
with Camera



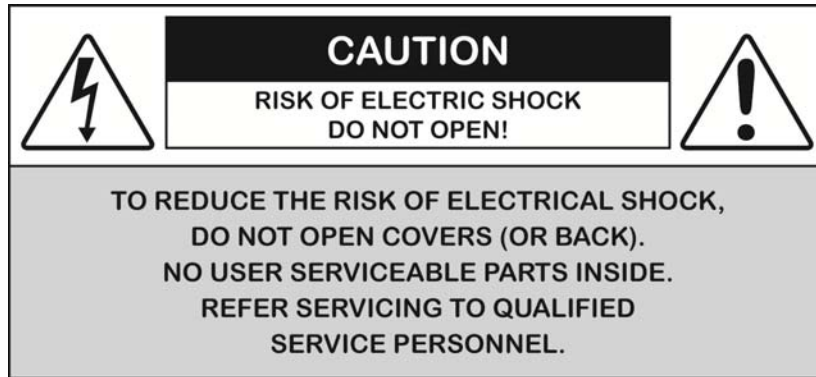
Please read this user manual and the quick setup guide completely and keep it for your future reference.

MADE IN TAIWAN
4 BAND GSM WIRELESS MODULE MADE IN GERMANY

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www.sentryus.com



R201209-V17



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

When using this GSM Door / Gate Intercom Entry System, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Please read the following before using your equipment.

1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product.

2. Cleaning

Unplug the product before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

3. Requires a proper operating environment

This product is designed for outdoor use. Do not use this product near water. Do not use this product near an area where there is a potential of gas leaks or near any fumes that can be explosive. Do not place this equipment near or over a radiator or any other heat source. Avoid using the equipment during an electrical storm. There is a remote risk of electrical shock from lightning.

4. Check the power source voltage

The power source voltage should be within the specified range (Product must meet the specifications). Do not overload the wall outlet or power cord where the power adapter is installed. This can result in fire or electric shock.

5. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

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For visitors using the system to enter the door – Unlimited Visitor

Can program max. 3 phone numbers (3 Admins) to talk to visitor. See details for ITEM 3 or manual.



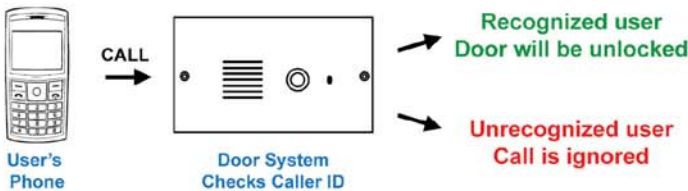
To momentarily release the lock:
Press * (star)

To hold door unlocked: Press # (pound) Ex) For moving company to move things inside

To lock door after hold: Press 1 (one) Ex) After moving company is done

Must use one of the Admins to upgrade to a Power Admin (11, 12, or 13) – see ITEM 3.

Users calling into the system recognized by Caller ID – Max 100 Users

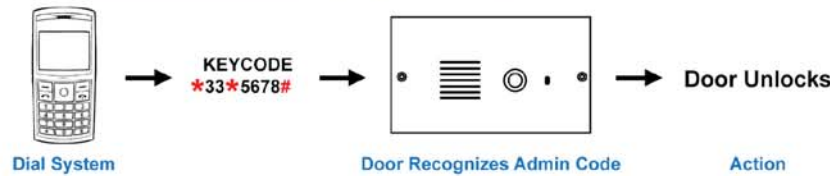


The Admin can program user's phone number to the system and after it recognizes the caller ID, the door will be unlocked.

Calling in from Admin's Phone to send command to the system – 3 (Three) Admin

Can only Call and Dial in to program the system.

(1 Power Admin + 2 Admins)



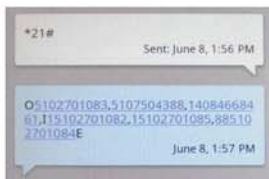
To momentarily release the lock:
Press *33*5678#

To hold door unlocked: Press *34*5678# Ex) For moving company to move things inside

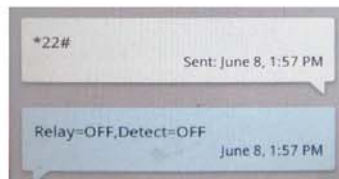
To lock door after hold: Press *35*5678# Ex) After moving company is done

Power Admin's Phone to receive SMS Confirmation – 1 (One) Power Admin

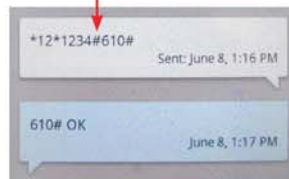
Can Call and Dial in or Send SMS to program the system & also Receive Confirmation from the system.



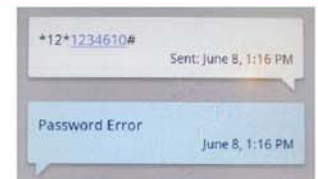
ITEM 9: List all Numbers Stored in the System:
O = admin / I = user / E = end



ITEM 10: Check Lock (Relay) Status
Relay = on-unlocked / off-locked



Entry OK Confirmed
ITEM 18: Change Unlock System Code.
Change from factory default * to 0.



Entry Failure - Forgot # sign








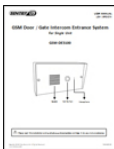


See page 13 for enlarged screen capture pictures

Options:

See details at www.SentryUS.com for more information.



PACKAGE CONTENTS

- 1)  Panel – Front
- 2)  Panel – Rear with Plastic Back Cover
- 3)  Stainless Steel Surface Mount Panel Housing
- 4)  GSM External Antenna (9.8ft/3m lead) with Bracket
- 5)  Power Adapter 12V DC 1.5A
- 6)  Two (2) Security Screws & Locking Washer
- 7)  Allen Wrench for Security Screws
- 8)  User Manual
- 9)  3M Sticker + One (1) Screw & Wall Anchor for Antenna Bracket
- 9)  Quick Setup Guide

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.

INTRODUCTION

The GSM Door / Gate Intercom Entry System is an intercom access system installed at the entrance of a door or gate. It is an ideal product replacing the traditional door phone. It allows up to three (3) Admins (1 Power Admin and 2 Admins) and up to one hundred (100) Users access to entrance with an option to provide remote access for visitors who use the system to call the homeowner or manager. The system has a default talk time of 55 seconds with a maximum talk time of 999 seconds.

There are three options of remote access into the system.

Option 1: The visitor can push the call button on the system. Once the Admin receives the call, they can unlock the gate from a remote location by simply pressing a * (star) command on their cell phone or ignoring the call.

Option 2: The Admin can call into the system and remotely dial a command (*33*5678# -- default) to momentarily release the lock.

Option 3: Registered users (up to 100) can dial into the system, and if recognized, will allow automatic unlock through Caller ID recognition.

This system gives the opportunity not only to know who is waiting at the entrance from a remote location but also to control the access point. Use of this system at your company or house does not require any special installation or wiring. Simply install this system and connect the door latch and power supply.

ROLE ASSIGNMENT

The system has the ability to store 3 Admin accounts (1 Power Admin + 2 Admins) and 100 User accounts. Registered Admins have the ability to call into the system and enter dial codes or SMS codes to access functions. Separate roles can be assigned to an Admin. Users are allowed to make calls into the system and are allowed entry into door/gate by dialing in. Users are recognized by Caller ID and if Caller ID is not recognized, call is ignored. When a registered User dials into the system they are limited to opening the door/gate only.

THE DIFFERENT ROLES OF ADMIN & POWER ADMIN

The system is set to call Admin 11 first if the call button is pushed. After 18 seconds (default) and there is no answer, the phone call is disconnected and diverted to dial Admin 12. If no answer, then system diverts to dial Admin 13. Depending on service provider, Ring Divert Time

(ITEM 17 on page 14) may be adjusted from 10 seconds to 99 seconds to adjust for different GSM service providers for voicemail answering. To register for one Admin only (11, 12, 13), set Ring Divert Time to **99 seconds**.

It is important to know that each Admin can dial program the system but only one (1) of the Admins (11, 12, 13) can register admins, users, and change system settings via SMS. This person with SMS capability is referred to as the **Power Admin**.

Note: Once the power is unplugged from the system, the Power Admin is erased from the system.

The Passcode should be kept confidential and be released to qualified Admins only.

Role Assignment Examples:

Example 1: A Single-family Home

Person	Admin	Functions	Settings
Homeowner Cell phone with no SMS feature	Admin 11	When the call button is pressed, this is the first person that the system calls. Has the option of adding users.	Homeowner's phone number is registered to Admin 11; Family Member 1 is registered to Admin 12; Family Member 2 is registered to Admin 13. Admin 12's phone number is also registered as a Power Admin in order to add users, program & receive confirmations via SMS. Admin 11 and 12 know the Passcode and Admin 13 does not. Ring Divert Time is set to default (18 sec), so the system will call each Admin's phone number in order, but hang up before the call goes to voice mail. Any person who needs to be able to unlock the door/gate without talking to the Homeowner/Family Member may call the system from a cell phone to unlock it themselves if their number is registered into the system.
Family Member 1 Smart phone	Admin 12 <i>*Upgraded to Power Admin</i>	When the call button is pressed and Admin 11 does not answer, this is the second person that the system calls. Has the ability to add users and change settings in system via dial in or SMS.	
Family Member 2 Land line	Admin 13	When the call button is pressed and Admin 11 and 12 does not answer, this is the third person the system calls.	
Users: In-laws, gardener, babysitter, dog walker *	Not Admin <i>*registered as User</i>	Any user with a phone number registered into the system can call the system's SIM card phone number to unlock the door/gate.	

Result: Admin 11 is limited to adding users by dialing in. Since Admin 12 owns a smart phone, Admin 12 can register and check users in the system via SMS. Admin 11 and 12 would like Admin 13 to accept visitors when Admin 11 and 12 are unavailable, but does not allow Admin 13 to program the system, so the Passcode is kept confidential from Admin 13. Trusted guests can be registered as Users in the system to unlock the door/gate themselves by calling into the system.

Example 2: A Small Office

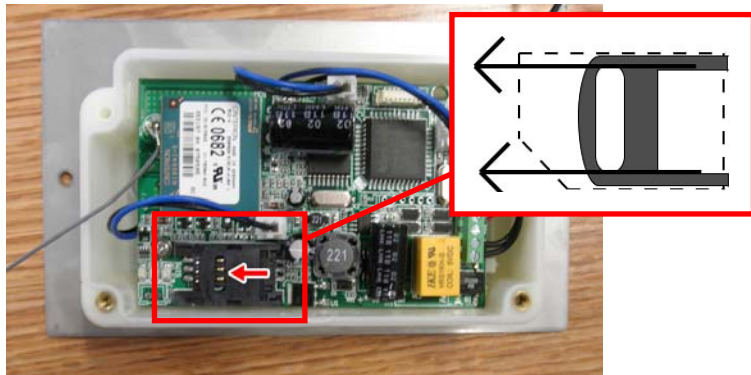
Person	Admin	Functions	Settings
Front Desk Receptionist Land line	Admin 11	The exclusive number that receives calls and can allow visitors in.	The Front Desk Receptionists' phone number is registered to Admin 11 and Office Manager's phone number is registered to Admin 12. Admin 12's phone number is also registered as a Power Admin in order to add users, program & receive confirmations via SMS. Admin 12 knows the Passcode. Ring Divert time is set to 99 seconds, so the system will call Admin 11's phone number and continue to ring without calling Admin 12 or 13. All employees' and vendors' phone numbers are registered into the system so they are able to unlock the door for themselves by calling the system without requesting access from the receptionist.
Office Manager Smart phone	Admin 12 <i>*Upgraded to Power Admin</i>	Has the ability to change system settings and add or delete users via dial in or SMS.	
Users: Employees and Vendors	Not Admin <i>*registered as User</i>	Any user with a phone number registered into the system can call the system's phone number to unlock the door.	

Result: Whenever a visitor presses the call button, the front desk phone, which is set to Admin 11, will ring and the receptionist can choose to unlock the door for the visitor or not. Adding users and changing system settings will be done by the office manager Admin 12. The employees of the office and vendors needing to make deliveries all have their phone numbers registered into the system and can call into the system to unlock the door themselves.

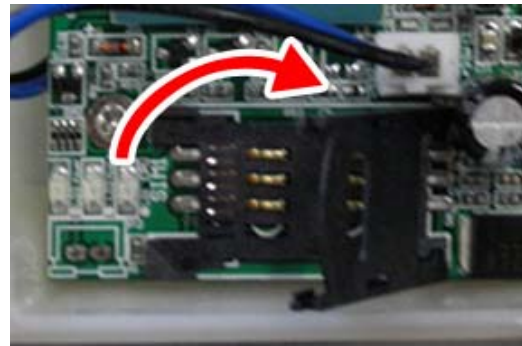
INSTALLATION

SIM CARD INSTALLATION

STEP 1. Face the panel so the SIM card tray is on the bottom left corner. Slide SIM card tray door left to unlock the tray.



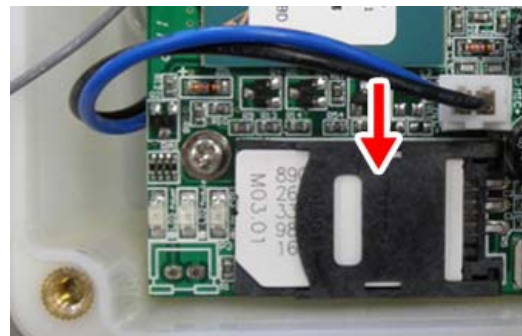
STEP 2. Flip up SIM card tray door.



STEP 3. Insert SIM card into tray door with notched side of SIM card facing up and metal contacts on SIM card facing left.



STEP 4. Gently push down to close tray door and pay careful attention to notch of SIM card.



STEP 5. Slide tray door to the right in order to lock SIM card into place. A "click" sound will indicate the tray door is locked.



STEP 6. Test system by powering on. A trouble beep will sound if the SIM card is installed incorrectly.

GSM SIM Card Reminder:

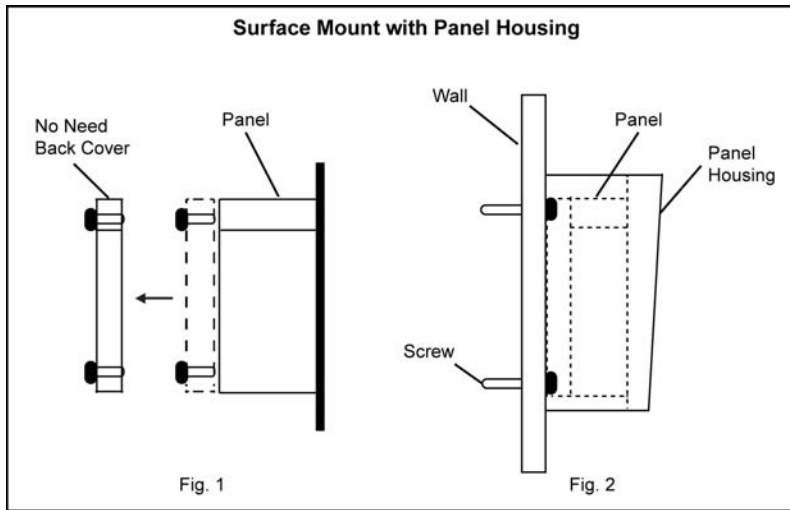
As a reminder, please make sure you understand your Terms of Service with your GSM provider. The door entry system will not work without a valid GSM SIM card. Works well with prepaid cards or subscription based cellular services using GSM only.

For example:

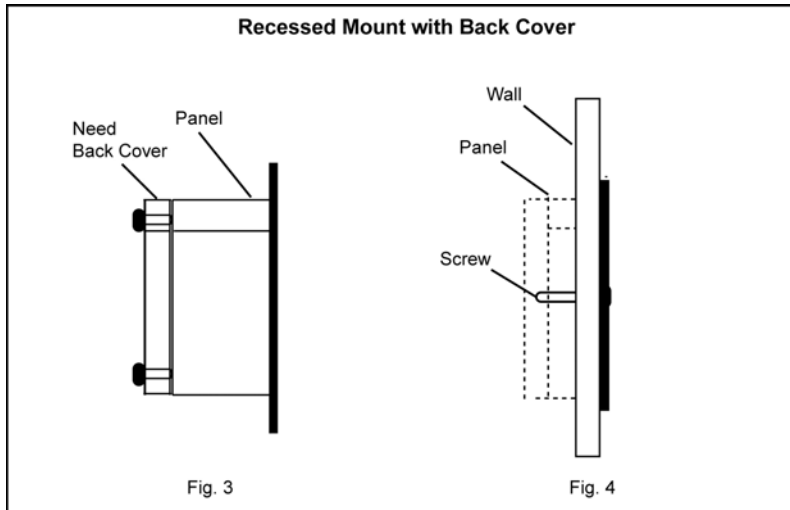
Some service providers in the USA such as T-Mobile or AT&T have different service plans. Be aware that some plans may lose subscribed number if prepaid card isn't renewed after one year even if there still is a balance.

SYSTEM INSTALLATION

The system can be installed either on a surface (Fig. 2) or recessed (Fig. 4).



NOTE: Before surface mounted installation, please remove the plastic back cover (Fig. 1) before fitting panel into the stainless steel panel housing.



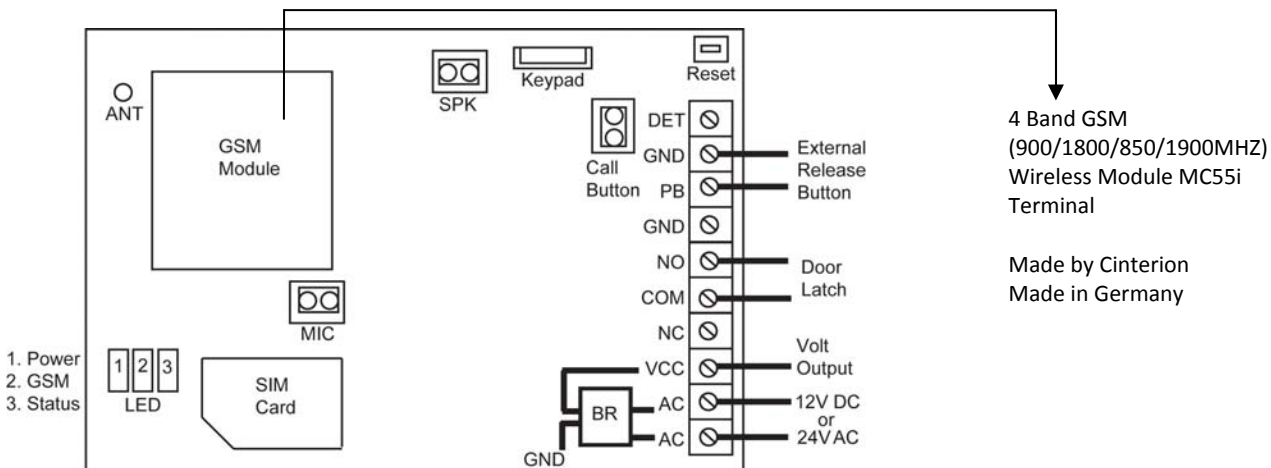
NOTE: Before recessed mounted installation, please KEEP the plastic back cover (Fig. 3) attached to the panel.

ADVISORY:

- ✓ Light gauge is recommended (22ga stranded) for wiring unit's open command.
- ✓ Seal unit with silicone sealant paying careful attention to metal housing. Do not use silicon sealant on plastic housing or cover.
- ✓ Be very careful with antenna when installing cover.
- ✓ Tape antenna connections with electrical tape.
- ✓ Do not pinch antenna cable when installing cover.
- ✓ Do not use near sprinkler system.
- ✓ Disconnect power when servicing equipment.

If the system is constantly emitting a tone during installation, it's a sign that there is poor reception in the area. To remedy the situation move the cellular antenna until the module stops emitting a tone.

WIRING DIAGRAM



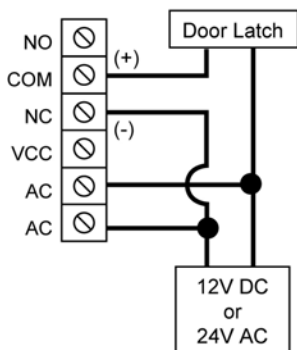
Made by Cinterion
Made in Germany

WIRING LOCKS

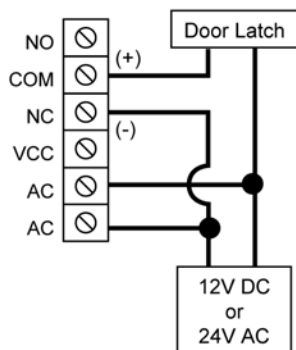
Depending on lock installed, the power can be sourced from the existing 12V DC 1.5A power supply or supplied separately using external power supply. Please be advised when sourcing power from door system, it should match required voltage with lock being installed. It is advised to install a separate external power supply for locks.

WIRING LOCKS USING "SYSTEM" POWER SUPPLY

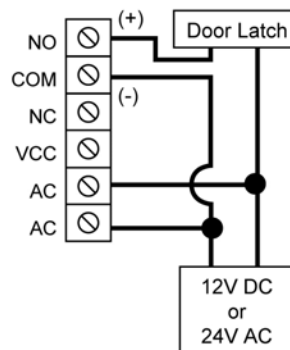
Mag Lock (Normally Closed)



Fail Secure Strike Lock (Normally Closed)

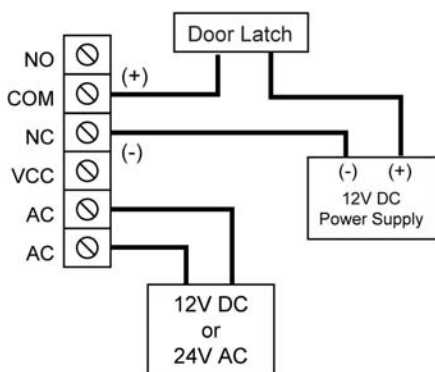


Fail Secure Strike Lock (Normally Open)

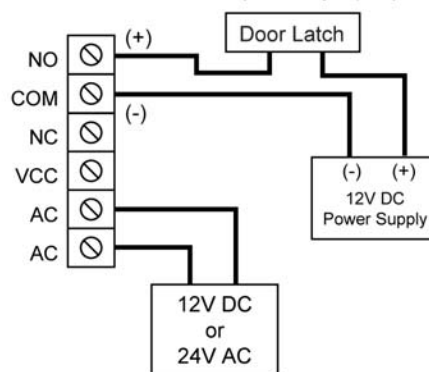


WIRING LOCKS USING "EXTERNAL" POWER SUPPLY

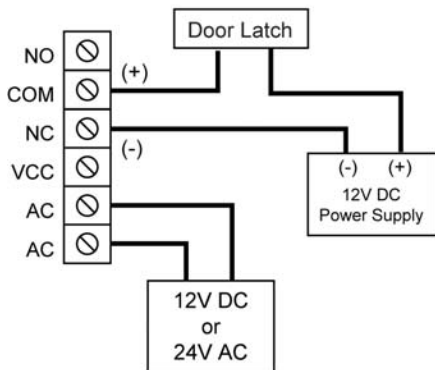
Mag Lock (Normally Closed)



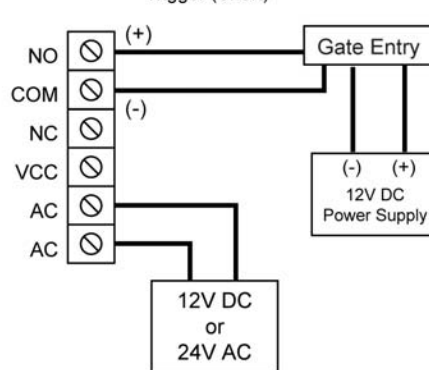
Fail Secure Strike Lock (Normally Open)



Fail Safe Strike Lock (Normally Closed)



Gate Entry Trigger (Normally Open)
Trigger (Short)



For Battery Backup recommendation, see page 17-18 or visit www.sentryus.com/module.php.

For reference of a Typical Lock Power Consumption, see page 13.

LED INDICATORS

LED Status Indicator

Red Flashing = Standby
Red Solid = Using

LED Network Indicator

Red flashes once per 3 seconds = Ready
Red flashes once per second = Searching
Red Solid = Busy

LED Power Indicator

Red Solid = Power On
Red Off = Power Off

ADDING ADMINS & USERS

ADDING ADMINS

The system has the ability to store one (1) Power Admin and three (3) Admins, where the Power Admin is an upgraded status for SMS programming and confirmation.

Note: An Admin must be added into the system before adding users or changing settings. One of the Admins must be used to be upgraded to a Power Admin. When registering a user for dialing in, the owner has to add the country code "1" before the phone number.

*The default Passcode is **1234**.*

- 1) Use your cell phone to dial into the system by entering the phone number of the SIM Card installed in the system. You will hear a long tone when the door system answers the call.
- 2) To add **first** Admin, enter: *12* 1234 # 11 1phonenumber #
- To add a **second** Admin, enter: *12* 1234 # 12 1phonenumber #
- To add a **third** Admin, enter: *12* 1234 # 13 1phonenumber #

Note: Successful key code acceptance is followed by one long tone. Unsuccessful key code is followed by three short tones. There is no option to delete an Admin, but an Admin can be overwritten.

Example 1: An Admin wants to register Admin 11 into the system. His phone number is 999-555-1234.

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Enter Program Mode	Admin Passcode	End Passcode	Admin (11, 12, 13)	Country Code + Telephone Number (11 digits -- including country code 1 & phone number with area code)	End
12	<u>1234</u>	#	11	1 999 555 1234	#

UPGRADING AN ADMIN TO POWER ADMIN

To upgrade an Admin to a Power Admin, enter Admin Program Mode (*12*) then use function code 74.

To upgrade Admin to **Power Admin** for SMS programmability, enter:

12 1234 # 74 1phonenumber #

To remove **Power Admin** status for SMS programmability, enter:

12 1234 # 74 * 1phonenumber #

Note: SMS texts are limited to 140 characters per message when using SMS programming.

Example 2: An Admin wants to upgrade Admin 11 to Power Admin.

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Enter Program Mode	Admin Passcode	End Passcode	Function Code	Country Code + Telephone Number (11 digits -- including country code 1 & phone number with area code)	End
12	<u>1234</u>	#	74	1 999 555 1234	#

ADDING USERS

An Admin has the responsibility of adding users into the system.

- To add **User 1**, enter: *12* 1234 # 72 1 1phonenumber #
- To add **User 2**, enter: *12* 1234 # 72 2 1phonenumber #
- To add **User 9**, enter: *12* 1234 # 72 9 1phonenumber #

Input 1-100 user IDs; 3 digit place holders not necessary

To add **User 20**, enter: *12* 1234 # 72 20 1 $\textit{phonenumber}$ #
 To add **User 100**, enter: *12* 1234 # 72 100 1 $\textit{phonenumber}$ #
 To delete a **User**, enter: *12* 1234 # 73 $\textit{usernumber}$ 1 $\textit{phonenumber}$ #
 To delete **all Users**, enter: *12* 1234 # 73 * #

Example 3: An Admin wants to program User 2 into the system. His phone number is 999-888-4321.

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7
Enter Program Mode	Admin Passcode	End Passcode	Function Code	User Number (0-100)	Country Code + Telephone Number (11 digits – including country code 1 & phone number with area code)	End
12	1234	#	72	2	1 999 888 4321	#

CHANGING PASSCODES & CODES

To change **Passcode**
 from **1234** to your own, enter: *12* 1234 # 01 $\textit{****}$ #
 $\textit{****}$ = new 4 digit passcode

To change **Relay Hold & Release Code**
 from **5678** to your own, enter: *12* 1234 # 02 $\textit{****}$ #
 $\textit{****}$ = new 4 digit passcode

To change **Sound Monitoring Code**
 from **1212** to your own, enter: *12* 1234 # 03 $\textit{****}$ #
 $\textit{****}$ = new 4 digit passcode

To change **Unlock System Code**, enter: *12* 1234 # 61 x #
 Changes the door unlock symbol code to open door from default (*) to another digit/symbol.

To change **Hold System Unlock Code**, enter: *12* 1234 # 63 x #
 Changes the hold door unlock code from default (#) to another digit/symbol.

To change **Lock System Code**, enter: *12* 1234 # 64 x #
 Changes the lock door system code from default (1) to another digit.

To change **International Country Code**, enter: *12* 1234 # 71 $\textit{countrycode}$ #
 The country code can be 1-3 digits. The default is set to country code 1 for USA.

To change **Call into Type**, enter: *12* 1234 # 65 x #
 When Admin calls into the system, it goes into the default programming mode (1). An admin can change the system's call in mode from programming mode to talk time mode (so no programming can be done). The default is set to 1.
 x = 1 for programming mode or 2 for talk time.

SOUND MONITORING MODE

Admins have an option to listen to what is happening outside the door/gate while the microphone is disabled. **The default Sound Monitoring Code is 1212.** You can still control the door/gate lock mechanism when you are under sound monitoring mode.

- 1) Use your cell phone to dial into the system by entering the phone number of the SIM Card installed in the system. The system will then verify your phone number with the predefined numbers. You will hear a long tone when the door system answers the call. Optionally you can SMS the system with same key code and the system will call back Power Admin.
- 2) To enter **Sound Monitoring Mode – Listen Only**, enter: *13* 1212 #

Speaker is off under the Sound Monitoring Mode. To enable microphone for 2-way communication, enter command key code 35 #.

REMOTE UNLOCK

The default Relay Hold & Release Code is 5678.

- 1) Use your cell phone to dial into the system by entering the phone number of the SIM Card installed in the system. The system will then verify your phone number with the predefined numbers. You will hear a long tone when the door system answers the call.
- 2) To have **Admin Call in to Unlock: Momentary (Trigger Relay)**, enter: *33* #
Admin can call into the system to unlock the door only once.
- 3) To have **Admin Call in to Unlock: Unlimited (Relay Hold)**, enter: *34* #
Admin can call into the system to unlock the door more than once – unlimited.
- 4) To have **Admin Call in to Lock (Relay Release)**, enter: *35* #
Admin can call into the system to lock the door.

ADJUSTMENTS

To adjust **Speaker Volume**, enter: *12* 1234 # 3 x #
Volume level x = 1, 2, 3, 4 where 1 = low and 4 = high. The default is set to level 3.

To adjust **Mic Volume**, enter: *12* 1234 # 4 x #
Volume level x = 1, 2, 3, 4 where 1 = low and 4 = high. The default is set to level 3.

To adjust system **Open Time**, enter: 12* 1234 # 51 x #
The open time is how long the door stays unlocked after being activated. The default is 8 seconds.
x = time in seconds (1-9)

To adjust **Ring Divert Time**, enter: *12* 1234 # 52 xx #
The ring divert time is how long the phone call stays ringing before diverting to the next Admin. The default is 18 seconds.
xx = 10-99 seconds

To adjust **Call/Talk Time**, enter: *12* 1234 # 53 xxx #
Call/talk time is how long the phone stays connected before hanging up. The default is 55 seconds.
xxx = 005-999 seconds

OTHER PROGRAMMING KEY CODES

LIST ALL NUMBERS STORED IN SYSTEM

The Power Admin is able to receive an SMS text with a list of all the phone numbers stored in the system.

To **List all Phone Numbers** stored in the system, enter: *21 #

CHECK STATUS

To check the **Lock (Relay) Status**, enter: *22 #
Relay on = unlocked; Relay off = locked
Detect = on/off

To check **GSM Signal Status**, enter: *20 #
When a request for GSM signal strength message is sent to the system, it will send a SMS reply with one digit signal strength code between 0~4. Signal strength lower than level 3 may cause operational problems such as loss of speech quality (and possibly missing DTMF tones) and network loss.
x = 0-4, 0 being the lowest and 4 being the highest

To check **Minutes/Balance Status**

on **SIM Card**, enter:

***23 #**

Feature may not work in United States.

To **Add Check Balance Code**, enter:

78 xxxxxxx #

Enter code for SMS check balance from service provider (related to check minutes/balance status on SIM card).

*Must change to Check Balance Code of Service Provider.

For a chart of the important programming key codes, see page 14.

FACTORY DEFAULT RESET

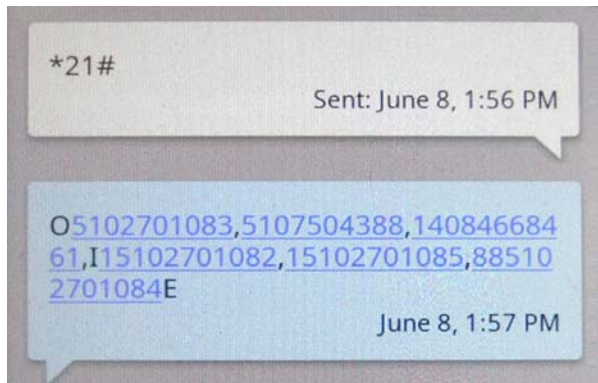
If performing a “reset to factory default” is necessary, make sure to record all settings and phone numbers of admin and users. Once hard reset is performed, all phone numbers and settings are erased and must be reprogrammed into the system again.

To **Reset**, enter:

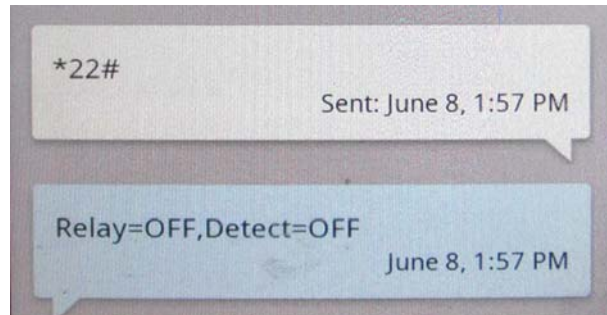
***12* 1234 # 999 #**

<p>FOR REFERENCE ONLY Typical Lock Power Consumption Please refer to all power consumption details in the lock manual for lock being installed.</p>	<p>Striek Lock 12V DC @ 250mA / 24V DC @ 150mA</p>	<p>Mag Lock 300 lbs: 12V DC @ 420mA / 24V DC @ 210mA 600 lbs: 12V DC @ 500mA / 24V DC @ 250mA 1200 lbs: 12V DC @ 500mA / 24V DC @ 250mA</p>
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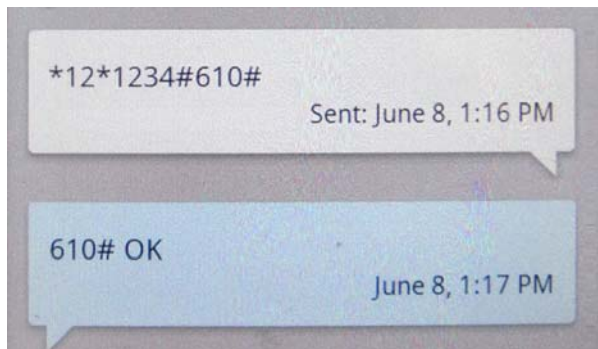
Enlarged Screen Capture Pictures from front page of Quick Setup Guide:



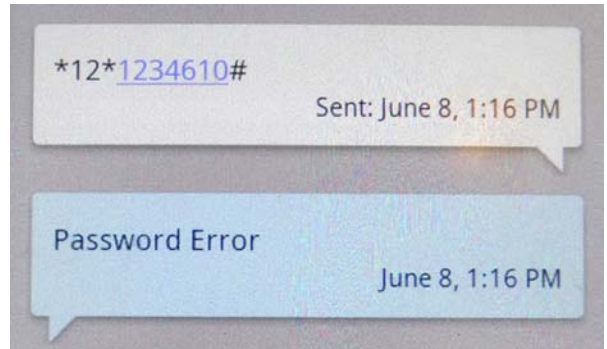
ITEM 9: List all Numbers Stored in the System.
O = admin / I = user / E= end



ITEM 10: Check Lock (Relay) Status.
Relay on = unlocked / off = locked



Entry OK confirmed.
ITEM 18: Change Unlock System Code. Change from factory default * to 0.



Entry Failure – Forgot # Sign

LEGEND	
<p>▲ * 12 * 1234 # -- see ITEM 1. For programming the phone number into the system, you must enter country code "1" before the phone number for USA version.</p> <p>■ Command Program by: 1. Works on both Call and Dial in or SMS - Admin or Power Admin 2. Works only with SMS - Power Admin Only - see ITEM 5</p>	<p>ITEM 2: ●●●● Red Passcode</p> <p>ITEM 12: ●●●● Green Sound Monitoring Code</p> <p>ITEM 22: ●●●● Blue Relay Hold & Release Code</p>

ITEM	FUNCTION	■	KEY CODE	SMS CONFIRM	RESULT / OPTION	DEFAULT			
1	Enter admin Program Mode ▲	1	▲ = * 12 * ●●●● #	N	Admin programming mode with Passcode entered *Due to security, change the default passcode 1234 to new passcode	1234			
2	Change Passcode	1	▲ 01 ●●●● #	Y	Changes the default Passcode 1234 to your own xxxx = new passcode (only 4 digits)	1234			
3	Add Admin (11) Add Admin (12) Add Admin (13) <i>*Must use one of the Admins to upgrade to Power Admin. See ITEM 5 & 6</i>	1	▲ 11 phonenum # ▲ 12 phonenum # ▲ 13 phonenum #	N	(11) Adds Admin to receive first call and can dial in for system programming (12) Adds Admin for dial in system programming and receives call if admin (11) does not answer (13) Adds Admin and receives third call if no answer from second admin (12)				
4	Delete Admin in System	1	▲ 1 (11 or 12 or 13) * #	Y	Deletes an Admin (either 11 or 12 or 13) from the system				
5	Upgrade Admin to Power Admin for SMS Programming Ⓢ	1	▲ 74 phonenum #	Y	Upgrades an Admin to Power Admin for SMS programming (max-1)	Ⓢ			
6	Delete Power Admin in System	1	▲ 74 * phonenum #	Y	Deletes Power Admin's phone number from the system				
7	Add Users for Auto Unlock by Recognized Caller ID	1	▲ 72 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>x</td></tr><tr><td>xx</td></tr><tr><td>xxx</td></tr></table> phonenum #	x	xx	xxx	Y	Add user [x, xx, xxx = user 1~100] up to 3 digits Phone number requires 1 + area code for USA x = 1~9 xx = 10~99 xxx = 100	
x									
xx									
xxx									
8	Delete Users in System	1	▲ 73 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>x</td></tr><tr><td>xx</td></tr><tr><td>xxx</td></tr></table> phonenum #	x	xx	xxx	Y	Delete user [x, xx, xxx = user 1~100] up to 3 digits x = 1~9 xx = 10~99 xxx = 100	
x									
xx									
xxx									
9	Delete All Users in System	1	▲ 73 * #	Y	Deletes all users in system				
10	List all Numbers Stored in System	2	* 21 #	Y	List of stored phone numbers via SMS Power Admin must be upgraded from Admin in system				
11	Check Lock (Relay) Status	2	* 22 #	Y	Relay = on-unlocked / off-locked Detect = on/off				
12	Change Sound Monitoring Passcode	1	▲ 03 ●●●● #	Y	Changes the default Sound Code 1212 to your own xxxx = new Sound Code (only 4 digits)	1212			
13	Enter Sound Monitoring Mode	1	* 13 * ●●●● #	Y	Listen in only. During this mode, enter 35 # to enable 2-way communication	1212			
14	Adjust Speaker Volume	1	▲ 3 x #	N	Volume level x = 1, 2, 3, 4 (low = 1 ; high = 4)	3			
15	Adjust Mic Volume	1	▲ 4 x #	N	Volume level x = 1, 2, 3, 4 (low = 1 ; high = 4)	3			
16	Adjust System Open Time	1	▲ 51 x #	Y	x = time in seconds (1~9999)	8 sec			
17	Adjust Ring Divert Time	1	▲ 52 xx #	Y	xx = 10~99 in seconds (2 digits)	18 sec			
18	Adjust Call Time	1	▲ 53 xxx #	Y	xxx = 005-999 in seconds (3 digits)	55 sec			
19	Change Unlock System Code	1	▲ 61 x #	Y	x = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, *, # (one digit or symbol)	*			
20	Change Hold System Unlock Code	1	▲ 63 x #	Y		#			
21	Change Lock System Code	1	▲ 64 x #	Y		1			
22	Change Relay Hold & Release Code	1	▲ 02 ●●●● #	Y	Changes the default Relay Code 5678 to your own xxxx = new Relay Code (only 4 digits)	5678			
23	Admin Call in to Unlock: Momentary (Trigger Relay)	1	* 33 * ●●●● #	N	Call in to unlock the door one time only	5678			
24	Admin Call in to Unlock: Unlimited (Hold Relay)	1	* 34 * ●●●● #	N	Call in to unlock the door more than once -- unlimited	5678			
25	Admin Call in to Lock (Release Relay)	1	* 35 * ●●●● #	N	Call in to lock door after unlock	5678			
26	Check GSM Signal Status	2	* 20 #	Y	Signal Level = x x = 0~4 (0 lowest, 4 highest)				

Note: For more detailed programming instructions, please see the **User Manual**.

◆ For ITEM 17 above, if voicemail is set up on system, please adjust Ring Divert Time to lesser seconds to divert call from voicemail - 18 sec. default – min. 10 sec. Refer to page 12.

• For ITEM 5 above, it is suggested to program the system as a Power Admin using SMS. Additional features such as confirm back via SMS and having a visual record of previous commands decreases errors.

• Power Admin must be added in the system every time power is reset or restored. Backup battery system recommended, see page 17 for details.

Ⓢ Refer to page 16 (Programming Worksheet).

SPECIFICATIONS

Model	GSM-DE3100
Operating Voltage	12V DC or 24V AC (includes 12V DC 1.5A Power Adapter)
Operating Current	Under 12V DC: 55mA Standby, 250mA max
GSM Frequency / Module	GSM 850/900/1800/1900 Wireless Module Made in Germany by Cinterion
Protection	IP65
Humidity	Less than 80% RH
Operating Temperature	-4°F ~ 122°F / -20°C ~ 50°C
Faceplate Dimension (L x W x H)	6.69" x 3.94" / 170mm x 100mm
Module Housing Dimension (L x W x H)	6.85" x 4.44" x 2.56" / 174mm x 113mm x 65mm
Antenna Dimension (DIA-base x H)	1.14" x 0.7" / 29 x 17 mm Lead Length: Approx. 9.84ft / 3m

**Specifications are subject to change without notice.*

TROUBLESHOOTING

If a constant beep occurs when the system is initialized, the following components will need to be checked:

- 1) **SIM Card:** Please check to see if the SIM card is fitted properly into the door of the SIM card holder and locked properly.
- 2) **Antenna:** Please make sure the antenna is installed properly and positioned in a location that receives GSM signal. Also make sure the antenna lead is not broken.

Sentry US Technical Support Line: 1-800-872-9907 Mon.-Fri. 9am – 5pm PST

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **Warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. For damage requiring service, unplug the product from any power source and refer service to qualified servicing personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product has been dropped or the housing has been damaged.

PROGRAMMING WORKSHEET

SIM Card Telephone Number: 1-(_____) - _____ - _____

SIM Card Service Provider: _____ SIM Card PIN: _____

Administrators:

- System must have at least one Admin (11 or 12 or 13) registered into the system.
- Only one of the Admins (11 or 12 or 13) can be a Power Admin.
- Add 1 (USA Country Code) then the telephone number when registering Admins into system.
- If registering for only Admin (11) to receive visitor's call, set ring divert time (ITEM 16 in quick setup guide) to 99 seconds.

Admin (11) Phone Number: 1-(_____) - _____ - _____
First to receive phone call

Power Admin:

Admin (12) Phone Number: 1-(_____) - _____ - _____
Second to receive phone call

Power Admin:

Admin (13) Phone Number: 1-(_____) - _____ - _____
Third to receive phone call

Power Admin:

System can only register one **Power Admin** for SMS programming and confirmation. Please use checkbox to select an Admin (11 or 12 or 13) that will be upgraded to **Power Admin**.

Users' Phone Numbers (for Dial-in access to property):

User 1: 1-(_____) - _____ - _____

User 11: 1-(_____) - _____ - _____

User 2: 1-(_____) - _____ - _____

User 12: 1-(_____) - _____ - _____

User 3: 1-(_____) - _____ - _____

User 13: 1-(_____) - _____ - _____

User 4: 1-(_____) - _____ - _____

User 14: 1-(_____) - _____ - _____

User 5: 1-(_____) - _____ - _____

User 15: 1-(_____) - _____ - _____

User 6: 1-(_____) - _____ - _____

User 16: 1-(_____) - _____ - _____

User 7: 1-(_____) - _____ - _____

User 17: 1-(_____) - _____ - _____

User 8: 1-(_____) - _____ - _____

User 18: 1-(_____) - _____ - _____

User 9: 1-(_____) - _____ - _____

User 19: 1-(_____) - _____ - _____

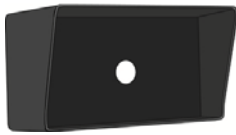
User 10: 1-(_____) - _____ - _____

User 20: 1-(_____) - _____ - _____

**Use a separate sheet if necessary. Can add up to 100 users.*

OPTIONAL ACCESSORIES

Outdoor Housing Option 1
DE-H1



Example:



Outdoor Housing Option 2
DE-H2
(for use with Access Control Keypad or Camera)



Examples:



Accessories for using GSM-DE3100 system with DE-H2 housing:

Analog Pinhole Camera



* Wireless 3G Camera
comina soon!

Stand-Alone Access Control Keypad
with Built-in EM Reader **
ACSK-EM

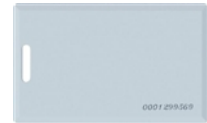


** Only to be used with Access Control Keypad

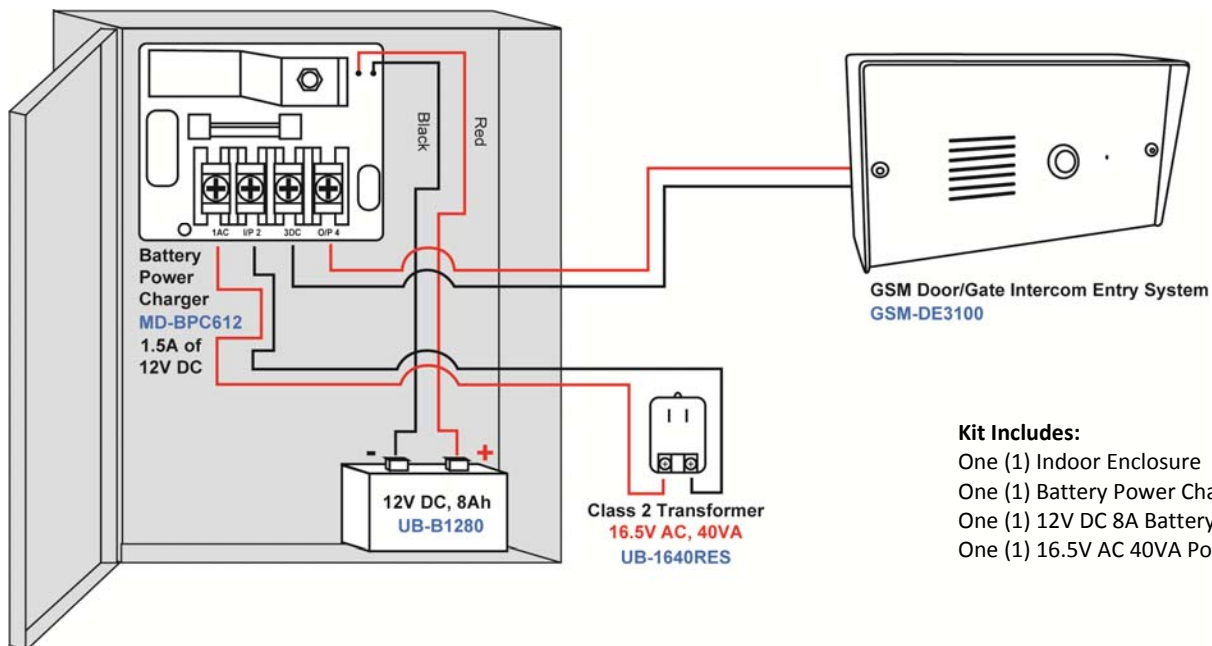
RFID EM Keyfob **
ACC-EMTAG-B



Proximity Clamshell ID
Access Card **
ACC-EMC



Battery Backup System **MD-E-KIT**

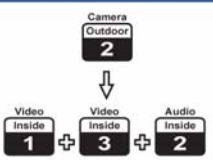


Kit Includes:

- One (1) Indoor Enclosure
- One (1) Battery Power Charger
- One (1) 12V DC 8A Battery
- One (1) 16.5V AC 40VA Power Transformer

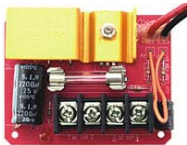
RELATED PRODUCTS

Video Intercom System

24 Series	Color IR Camera Outdoor Station				7" Color Monitor Inside Station		Audio Phone Set
							
Model	NC-DS2	NC-DS2-ST	NC-DS2-SLIM	NC-DS2-KP	NC-MON4	NC-MON4-SUB	NC-APS
Type	Standard	Standard	Slim	Keypad	Main	Sub	-
Mounting Type	Recessed	Surface	Surface	Surface	Surface	Surface	Surface
Image Sensor / Max. Lens / Minimum Illumination	1/3" CCD, 420 TVL / 2 72° / 0.05 Lux				-		-
Comm. Method / Duration	Duplex Communication Type / 120sec				-		-
IP Rating	IP55				Indoor Only		Indoor Only
Power	12V~14.5V DC				12V~14.5V DC, 50/60Hz		12V~14.5V DC
Working / Standby Current	200mA				800mA / 50mA		100mA / 70mA
Operation Temperature	-4°F ~ 131°F				14°F ~ 131°F		14°F ~ 131°F
Dimension	9.06" x 5.91" x 1.69"	3.54" x 5.12" x 1.69"	2.17" x 5.12" x 1.54"	2.95" x 7.48" x 1.77"	9.45" x 6.89" x 1.5"		3.0" x 9.06" x 2.31"
MSRP \$USD	\$245.00	\$150.00	\$150.00	\$210.00	\$370.00		\$65.00

Security Alert System - Relay and Module

16.5V AC 1.5A Battery Power Charger
MD-BPC612



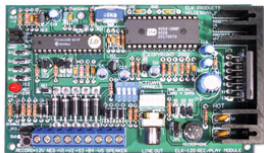
24V AC 7A Battery Power Charger
MD-BPC61224



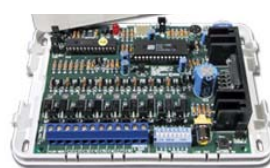
High Voltage Relay
MD-HVR



4 Channel Recordable Siren & Voice
Annunciator Module
MD-SVOICE4



8 Channel Recordable Voice Annunciator
Module
MD-VOICE8



365 Days Schedule Timer
MD-T365



www.SentryUS.com

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