
Instructions for Genesis Wireless Security System™

Power & Alarm Solution with Data Analytics Capability



Notifications

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Sennco Solutions, Inc. is not held liable for any firmware or software changes implemented by the displayed product's manufacturer, distributor, or reseller.

Any changes/modifications to this equipment not approved by Sennco Solutions Inc. could void the user's authority to operate the equipment.

Warning: System components should only be powered by the provided power supplies. Use of other power supplies can result in a risk of electrical fire and shock hazard.



Caution: DO NOT connect devices that draw more than 2A.

Patents:

Patent No.: US 8,279,077 B1

Patent No.: US 9,019,113

Patent No.: US 7,154,039

Patent No.: US 8,558,714 B1

Patent No.: US 9,303,809

<u>Component</u>	<u>Model</u>	<u>FCC ID</u>	<u>IC ID</u>	<u>Rating</u>
Main alarm+Data monitor	Model: 160001	COI-160001	20574-160001	24V 2.71A
Cradle	Model: 150002	N/A	N/A	5V 3A
Sensor head	Model: 150003	COI-150003	20574-150003	5V 2A max
Security Perimeter Dome	Model: 150005	COI-150005	20574-150005	24V 2.71A



Warning! The Main Alarm and Sensor Heads contain Lithium Ion (Li-ion) battery packs.

- Do not charge pack unattended.
- Do not reverse-charge or reverse-connect.
- Do not short circuit.
- Do not expose battery to direct sunlight.
- Do not dispose of in fire.
- Do not insert batteries with different connector.
- Do not heat, deform, solder, disassemble, or modify.
- Do not dispose of in trash or single stream recycling.
- Stop using if the battery pack expands or temperature exceeds 160°F (70°C).
- Disposal regulations may vary by location. Contact your local waste facility or recycling center for details on safe disposal options.
- The user is fully responsible for the safe storage, use, and disposal of the Li-ion batteries contained in this product.

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I. Parts List

A. Main alarm

Main alarm unit



AC power cable for Main Alarm



DaKey



B. Security Perimeter Dome

Security Perimeter Dome



AC power cable for Security Perimeter Dome



C. Sensor head

Sensor head



Sensor head shielding



Sensor head adhesive



WPWR cable



Tether Disconnect Key



D. Cloud Interface

Cloud Interface



Cloud Interface antennas



AC power cable



E. Cradle

Cradle



Cradle mounting plate



Cradle mounting plate adhesive



Cradle mounting plate hardware



AC power cable



*Actual cable may vary.

Cordwinder



*Cordwinder model may vary.

Cordwinder adhesive



*Cordwinder adhesive may vary.

Optional parts:

Wedge



Wedge adhesive



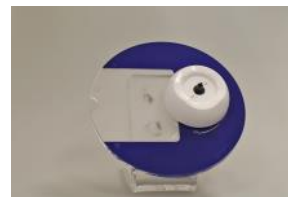
0.5" screws for mounting cradle mounting plate on wedge



Other cradle mounting options are available.



Above Counter Post
Refer to instruction code 120-007

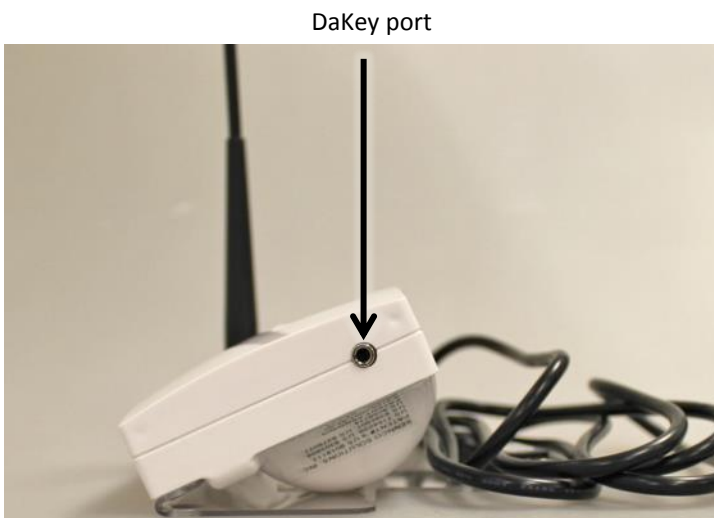
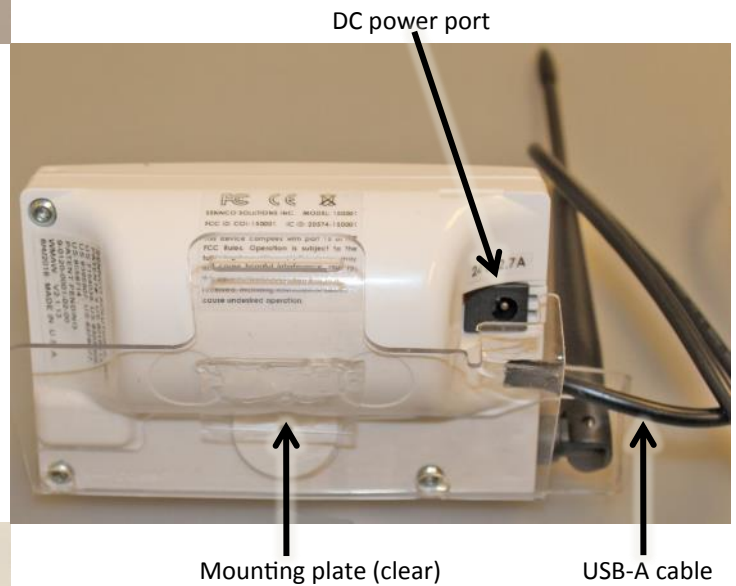
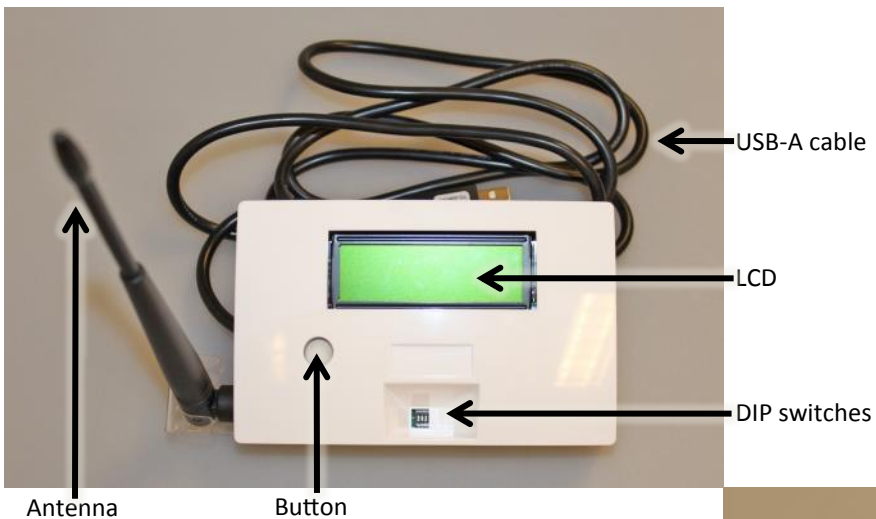


Display Circle
Refer to instruction code 120-012

II. Description of Alarm

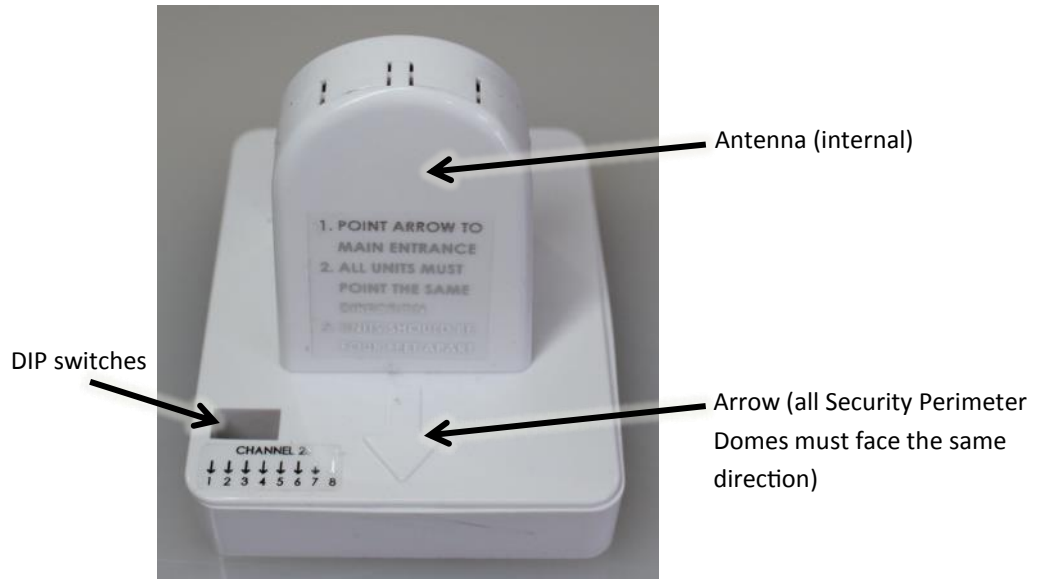
A. Main alarm + Data Monitor

Rated 24V 2.71A max



B. Security Perimeter Dome

Rated 24V 2.71A max

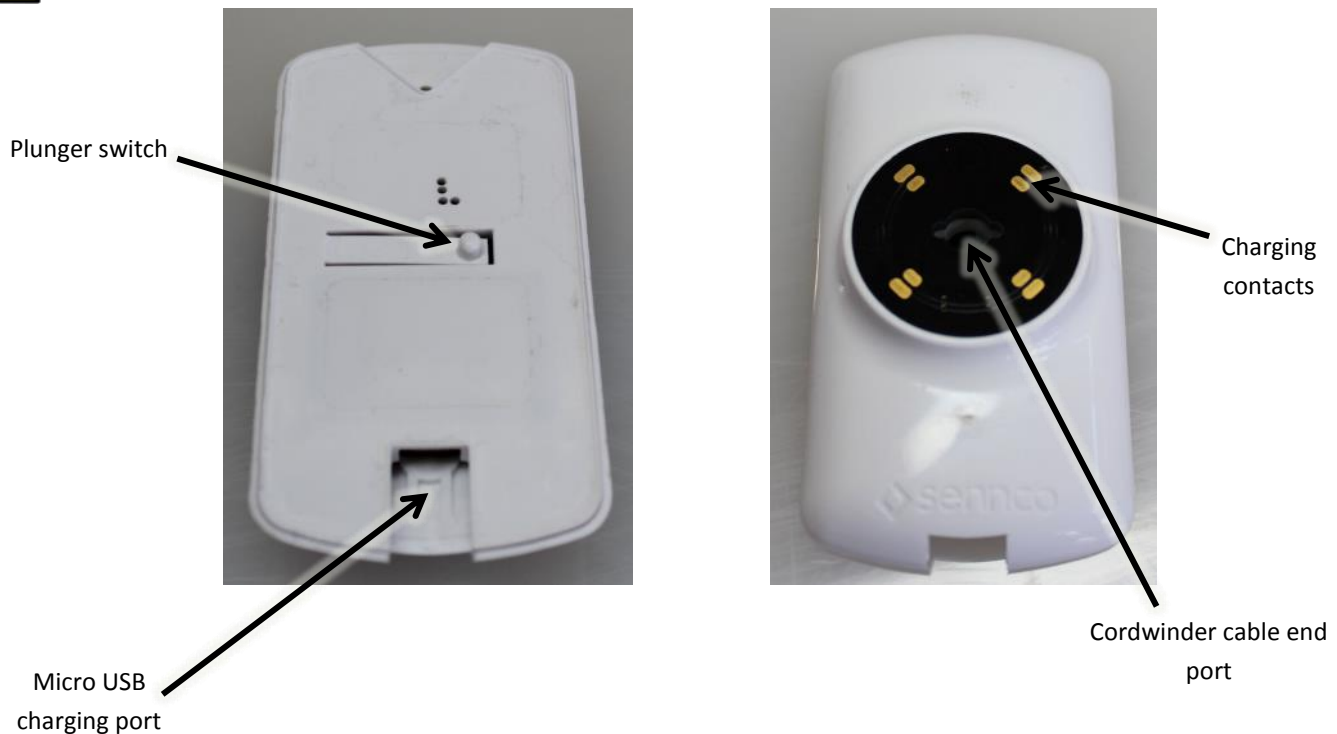


C. Sensor head

Rated 5V 2A max



Caution: DO NOT connect devices that draw more than 2A.



D. Cradle

Rated 5V 3A max

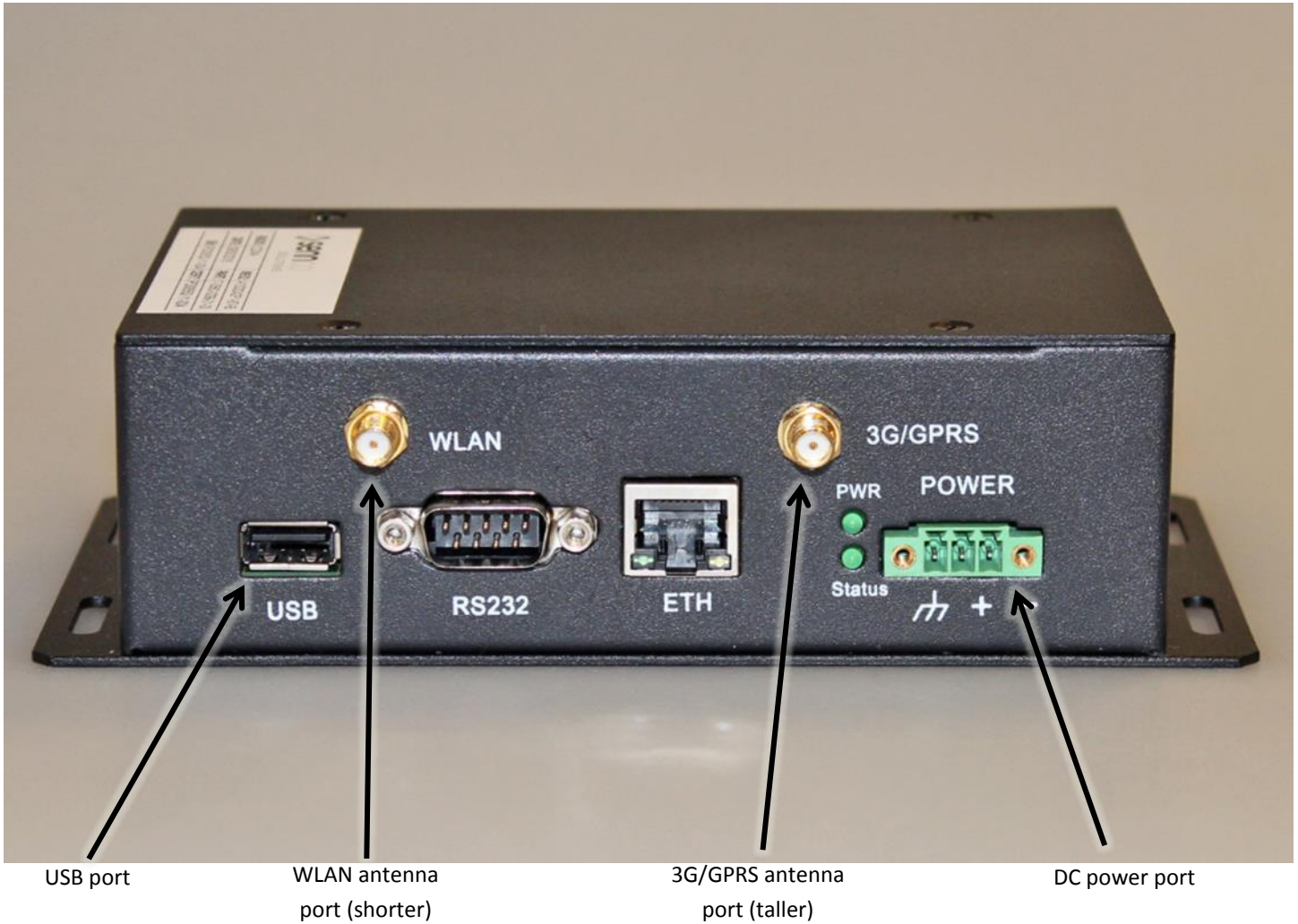


Charging
contacts



DC power port

E. Cloud Interface



III. Set Up

Note: Main Alarm, Cloud Interface, and cradles should be located at the same height as much as possible.

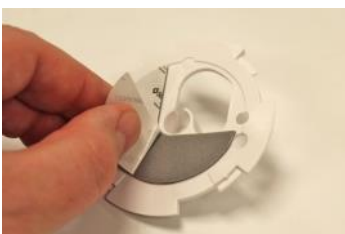
A. Cradles

Cradle mounting option 1: Mounting plate using adhesive (no wedge)

1. Clean the flat side of the cradle mounting plate using an alcohol wipe. Dry with a clean cloth.
2. Remove the backing from one side of the cradle mounting plate adhesive.
3. Apply the adhesive to the flat side of the cradle mounting plate. Make sure that the cutout on the adhesive is lined up with the cutout in the pattern on the mounting plate. Press firmly for 15 seconds for a stronger adhesive bond.
4. Using an alcohol wipe, clean the surface where the cradle will be placed.

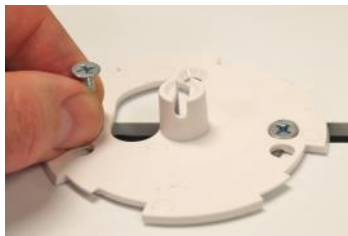


5. Remove the remaining backing from the adhesive.
6. Center the cradle mounting plate over the position. The slot in the center post of the cradle mounting plate should be open at the top and the large opening in the cradle mounting plate should be at the top left. Press firmly for 15 seconds for a stronger adhesive bond.



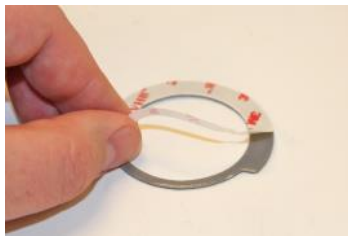
Cradle mounting option 2: Mounting plate using screws (no wedge)

1. Center the cradle mounting plate over the position, flat side down. The slot in the center post of the cradle mounting plate should be open at the top and the large opening in the cradle mounting plate should be at the top left. Depending on your fixture type you may need to drill holes for the mounting screws.
2. Insert two appropriate length screws from the mounting kit.
3. Place a washer and nut on each screw underneath the fixture.
4. Hold the nut securely with a wrench and use a screwdriver to tighten the screw. Be careful not to overtighten. Repeat for the other screw.

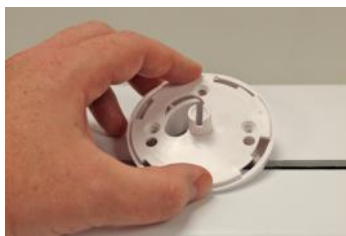


Cradle mounting option 3: Wedge using adhesive

1. Clean the bottom of the wedge using an alcohol wipe. Dry with a clean cloth.
2. Remove the backing from one side the wedge adhesive.
3. Apply the adhesive to the bottom of the wedge. Press firmly for 15 seconds for a stronger adhesive bond.
4. Using an alcohol wipe, clean the surface with the cradle will be placed. Dry with a clean cloth.

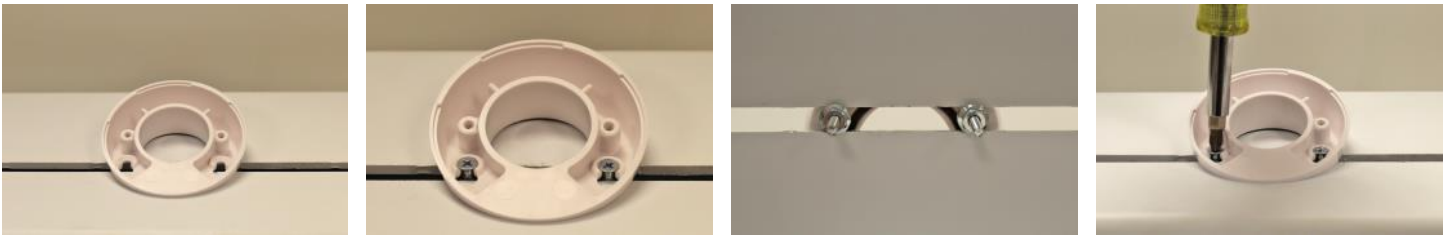


5. Remove the remaining backing from the adhesive.
6. Center the wedge over the position. The lower side should be to the front. Press firmly for 15 seconds for a stronger adhesive bond.
7. Place the cradle mounting plate (flat side down) over the wedge. The slot in the center post of the cradle mounting plate should be open at the top and the large opening in the cradle mounting plate should be at the top left.
8. Insert the two 0.5" screws. Tighten down with a screwdriver. Be careful not to overtighten.



Cradle mounting option 4: Wedge using screws

1. Center the wedge over the position. The lower side should be to the front.
2. Insert two appropriate length screws from the mounting kit. (Depending on your fixture type you may need to drill holes for the mounting screws.)
3. Place a washer and nut on each screw underneath the fixture.
4. Hold the nut securely with a wrench and use a screwdriver to tighten the screw. Be careful not to overtighten. Repeat for the other screw.



5. Place the cradle mounting plate (flat side down) over the wedge. The slot in the center post of the cradle mounting plate should be open at the top and the large opening in the cradle mounting plate should be at the top left.
6. Insert the two 0.5" screws. Tighten down with a screwdriver. Be careful not to overtighten.



Cradle mounting option 5: Above Counter Post

Refer to instruction code 120-007

Cradle mounting option 6: Display Circle

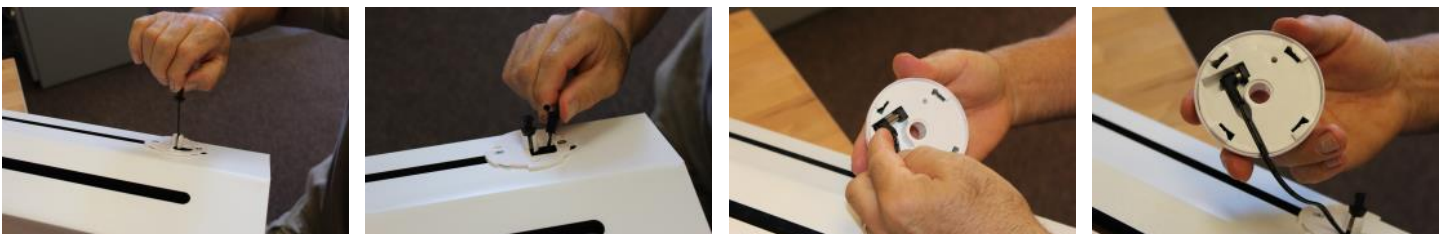
Refer to instruction code 120-012

Cradle mounting continued (following mounting option 1, 2, 3, or 4)

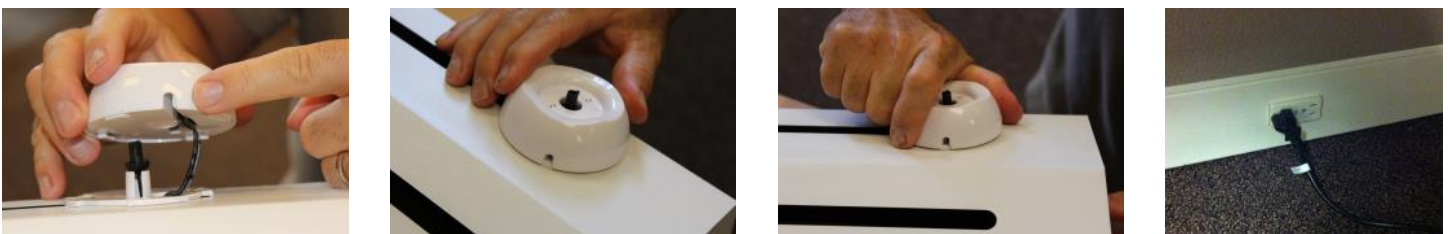
1. Find the Cordwinder. Clean the top of the Cordwinder box where the cable exits using an alcohol wipe. Dry it with a clean cloth.
2. Peel the backing off of the Cordwinder mounting adhesive and secure the adhesive to the Cordwinder. Press firmly for 15 seconds for a stronger adhesive bond.
3. Using an alcohol wipe, clean the area underneath the fixture where the Cordwinder will be placed. Dry with a clean cloth.
4. Peel the backing off of the top of the adhesive and secure the Cordwinder to the underside of the fixture so that the cable is centered in the cradle mounting plate. Press firmly for 15 seconds for a stronger adhesive bond.



5. Pull the cable end up through the large hole in the cradle mounting plate and guide the cable into the slot on the center post of the cable mounting plate. Slowly allow the cable to retract until the cable rests on the center post.
6. Find the power cable for the cradle and pull the barrel plug end up through the large hole in the cradle mounting plate.
7. Plug the power cable into the power port on the bottom of the cradle.
8. Guide the power cable into the cable keeper.



9. Make sure that the mouse hole is towards the back of the fixture.
10. Place the cradle on top of the cradle mounting plate, offset slightly counterclockwise from center.
11. Turn the cradle clockwise until it locks in place.
12. Plug the power cable into an outlet that has AC power available.



13. There is a red LED on the bottom of the cradle which will be lit when the cradle is receiving power. This LED is not visible when the cradle is on the cradle mounting plate.
14. Repeat as necessary for additional cradles.



B. Cloud Interface

1. Screw the shorter antenna into the left position labeled WLAN and the taller antenna into the right position labeled 3G/GPRS. Position both antennas vertically.
2. Plug the USB-A cable from the Main Alarm into the USB port on the Cloud Interface.
3. Plug the barrel plug end of the power cable into the power port on the Cloud Interface.
4. Plug the power cable into an outlet that has AC power available. Listen and confirm Cloud Interface beeps twice.
5. Place the Cloud Interface within reach of the Main Alarm USB-A cable, but make sure the Main Alarm and Cloud Interface antennas are spaced at least one foot apart. Avoid placing the Cloud Interface inside of cabinets, near the floor or near metal.



C. Main Alarm

1. Place the Main Alarm unit in clear line of sight **within 50 feet** of the display fixtures and **Security Perimeter Domes**. Avoid mounting near the floor or with large metal objects, metal cabinets, other equipment, etc. in close proximity to the Main Alarm or between the Main Alarm and the display fixtures. The Main Alarm should be at least **2 feet** away from the nearest **sensor head**, and its antenna should be positioned vertically 90°.
2. The Main Alarm's USB-A cable should already be plugged into the Cloud Interface and the Cloud Interface should have beeped twice after being connected to AC power. (See section B above.)
3. Plug the barrel plug end of the power cable into the power port on the Main Alarm.
4. Plug the power cable into an outlet that has AC power available.



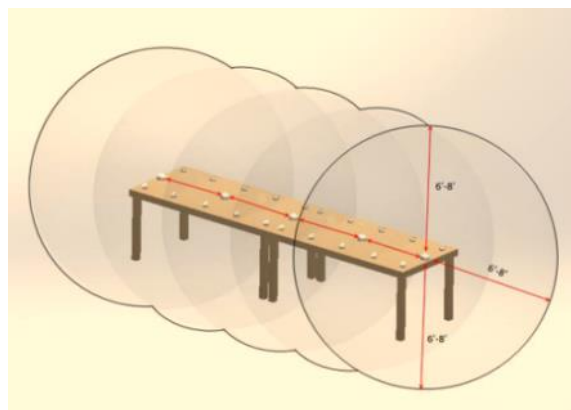
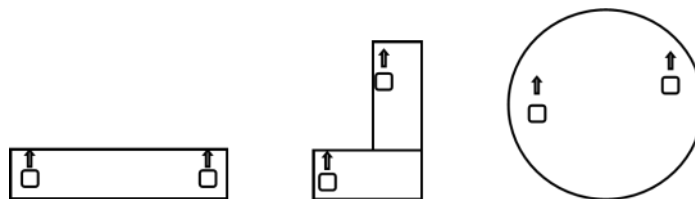
D. Security Perimeter Domes

1. Plug the barrel plug end of the power cable into the power port on the Security Perimeter Dome.
2. Plug the power cable into an outlet that has AC power available.
3. The green LED on the front of the Security Perimeter Dome indicates power is being received.
4. Place the Security Perimeter Dome in position. (**Note: They cannot be placed upside down.**)
 - a) Each Security Perimeter Dome generates a 6 ft - 8 ft radius sphere within which the protected devices are safe.
 - b) Additional Security Perimeter Domes within the same fixture should be spaced no more than 3 1/2 feet apart.
 - c) Each Security Perimeter Dome has an arrow on the front. All Security Perimeter Dome arrows in the system need to point in the same direction.
 - d) Multiple Security Perimeter Dome signals overlap to form a security area as illustrated below.



Place Security Perimeter Domes in clear line of sight within 3 1/2 feet of each other and within 3 feet of the farthest cradle. Avoid mounting Security Perimeter Domes near the floor or with large metal objects, metal cabinets, other equipment, etc. in close proximity or between the Security Perimeter Domes and the cradles. If Security Perimeter Domes are mounted below the fixture, do not mount them more than 2 feet below the cradles.

The blue LED on the front of the Security Perimeter Dome indicates wireless signals are being received. After the system is set up and the Main Alarm is powered, the blue LED should flash once about every second to indicate proper operation.



E. Sensor heads

1. Clean the surface of the sensor head's inside face using an alcohol wipe. Dry with a clean cloth.
2. Peel the backing off of the shielding and carefully line it up with the edge of the sensor head's inside face. The v notch will be at the top of the sensor head and the charging port will be at the bottom.
3. Smooth down the shielding as you continue to adhere it to the sensor head.
4. Make sure that the shielding is smoothed down and securely adhered across the inside face of the sensor head.



5. Peel the backing off of one side of the sensor head adhesive.
6. Secure the adhesive to the sensor head on top of the shielding. Press firmly for about 15 seconds for a strong adhesive bond.
7. Place the sensor head on a powered cradle to "wake up" the sensor head.
8. Two red LEDs on the back of the sensor head will flash indicating that the sensor head is active but not yet monitored by the system.

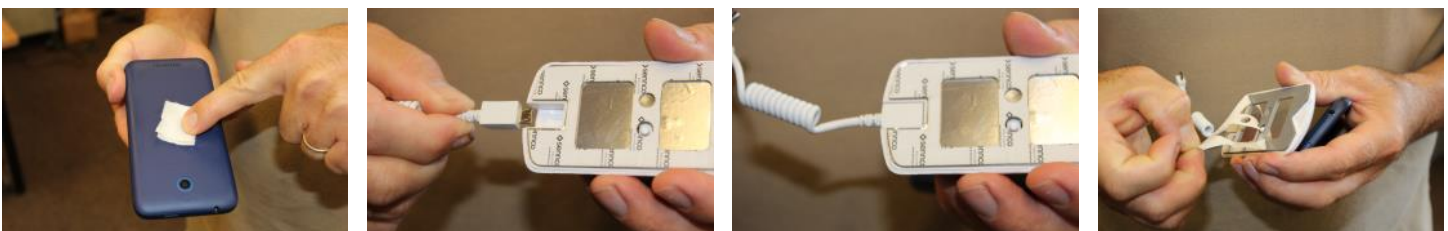


9. Clean the back of the device to be protected using an alcohol wipe. Dry with a clean cloth.



Caution: DO NOT connect devices that draw more than 2A.

10. Plug the micro USB power cable (charging cable) into the charging port on the sensor head.
11. The end of the micro USB power cable is molded to fit snugly in the sensor head's charging port.
12. Peel the backing off of the sensor head adhesive.



13. Center the sensor head on the back of the device to be protected.
14. Press firmly for about 15 seconds for a strong adhesive bond.
15. Plug the charging cable into the device's charging port.



F. Connecting sensor heads to Cordwinder cables

1. Pull a length of the Cordwinder cable from the cradle and bring the sensor head to it.
2. Insert the cable end into the hole in the back of the sensor head. Then turn the cable end a quarter turn clockwise. You will hear and feel a click when the cable is locked.
3. The cable end will still rotate about a quarter turn but will not come out without using the tether disconnect key.



G. Disconnecting sensor heads from Cordwinder cables

1. Insert the tether disconnect key into the hole in the side of the sensor head. The key is flexible to prevent damage to internal components.
2. You will feel a click when the cable end is unlocked. Turn the cable end about a quarter turn counter-clockwise and pull it out of the sensor head.
3. The protected device is now released from the mechanical security while still being monitored by the wireless system.



IV. Teaching DaKeys

DaKeys will be programmed or “taught” to the system simply by inserting them into the DaKey port on the Main Alarm. The first DaKey inserted will be taught automatically. Additional DaKeys can be taught by inserting them within five seconds after removing a previously taught DaKey. Anytime a recognized DaKey is inserted and removed the system provides a five second window of opportunity for teaching another DaKey.

A. Teaching the first DaKey

1. Ensure the system has power supplied.
2. Insert a DaKey into the DaKey port on the Main Alarm.
3. The system will automatically program this DaKey.
4. The LCD will state “KEY LEARNED” and show the count of keys learned as 01.
5. Remove the DaKey.



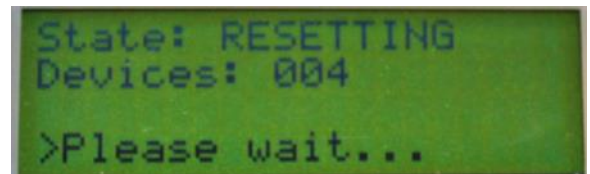
B. Teaching additional DaKeys

1. Insert any previously taught DaKey into the Main Alarm.
2. Remove the DaKey.
3. Within five seconds, insert the next DaKey to be taught.
4. The system will automatically program this DaKey.
5. The LCD will state “KEY LEARNED” and the count of keys learned will be updated..
6. Remove the DaKey.
7. **Note:** Up to ten DaKeys can be taught to the system.

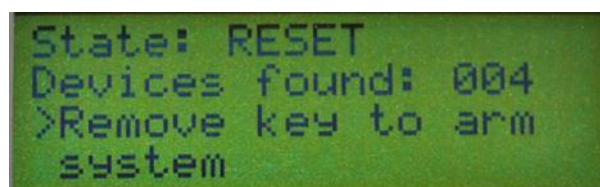


V. Resetting the system

- A. Make sure that the Main Alarm has power, all Security Perimeter Domes have power (indicated by a green LED), all of the cradles have power (indicated by a red LED on the underside of the cradle), and that all of the sensor heads have been activated by placing them on a powered cradle (indicated by two red flashing LEDs on the sensor head).
- B. Make sure that the Security Perimeter Domes are spaced no more than 3 1/2 feet apart with all of their arrows pointed in the same direction. Make sure each cradle is within 3 feet of a Security Perimeter Dome and within 50 feet of the Main Alarm. Make sure that nearest sensor head is at least 2 feet away from the Main Alarm.
- C. Insert a recognized DaKey into the Main Alarm and leave it inserted.
- D. The Security Perimeter Domes will all begin to ping a signal back to the Main Alarm (indicated by a blue flashing LED on each Security Perimeter Dome).
- E. The LCD will state "DIS-ARMED"
- F. Hold down the button on the front of the Main Alarm until the LCD states, "RELEASE TO RESET." (Approximately 4 seconds)



- G. The LCD will state "RESETTING" and show a device count of 000.
- H. The Main Alarm will listen for all of the sensor heads and the device count on the LCD will be updated.
- I. When completed, the LCD will state "RESET" and show a count of the total number of sensor heads found. If this number is less than the physically present heads check all of them and then repeat the reset.
- J. The LCD will also state "Remove key to arm the system" indicating it is now safe to remove the DaKey from the Main Alarm.. The system is not armed until the DaKey has been removed.
- K. After removing the DaKey there will be a less than 5 second delay before the system is armed. The Security Perimeter Domes will flash a blue LED and the sensor heads will flash a green LED as they ping back to the Main Alarm each second.



VI. Sensor head alarm

- A. If the sensor head is out of the “safe zone” sphere created by the Security Perimeter Domes then the red LEDs on the sensor head will begin to flash.
- B. After 1-2 seconds the sensor head will emit an alarm tone that is audible to the person holding the device.
- C. The flashing red LEDs and audible tone serve as a polite warning that the device needs to be brought back within the safe zone.
- D. If returned to the safe zone within 5 seconds the audible tone and flashing red LEDs will cease. The sensor head will return to flashing green LEDs indicating it is armed.
- E. If, however, the device is not returned to the safe zone within 5 seconds then the Main Alarm will be triggered causing it to emit a loud alarm that is audible throughout the area.



VII. Silencing the Main Alarm

- A. If the system alarms, **check the LCD** on the Main Alarm. It will show which sensor head has triggered the alarm.
- B. **Insert** a recognized **DaKey** into the Main Alarm to silence it. (**Note:** This silences the Main Alarm but does not disarm it. Any additional alarms triggered will still appear in the analytics data. See section VIII for instructions on disarming the system.)
- C. **Check for the issue** which caused the alarm to sound.
- D. **Make** any necessary **changes** (i.e. reattaching a sensor head).
- E. **Repeat steps in part V** for resetting the system.
- F. Remove the DaKey.
- G. After a less than 5 second delay the system will resume normal operation.
- H. Technical support can be reached at 866-736-6261 (toll free), 815-557-4786 (cellular), or techsupport@sennco.com (email).

VIII. Disarming the Main Alarm

- A. Insert DaKey in Main Alarm.
- B. Press and hold button 3 seconds to reset the system. LCD will state "Release to reset."
- C. Wait for all sensors to be found. Repeat step B if not all sensors are found.
- D. LCD will state, "Remove key to arm system." The system will **remain disarmed** until the key has been removed.
- E. Note: Use this procedure
 - 1. When moving displayed device for overnight storage
(see instruction 120-004 Genesis - Securing Product Off Display While Store Closed)
 - 2. When changing attached device
(see instruction 120-005 Genesis - Changing Attached Product)
 - 3. When removing sensor head(s) permanently.
(see instruction 120-006 Genesis - Removing Sensor Head from System)



IX. Hard Reset

The entire system can be reset by inserting a recognized DaKey, unplugging power from the Main Alarm unit, and then holding down the button on the front of the Main Alarm for longer than 10 seconds.

X. Points of Sensing

A. Micro USB power cable

If the Micro USB power cable (charging cable) is unplugged from the protected device or from the sensor head or if it is cut, then both the Main Alarm and the specific sensor head will immediately siren.



B. Sensor head plunger

If the sensor head is removed from the back of the protected device then both the Main Alarm and the specific sensor head will immediately siren.



C. Sensor head proximity

If the sensor head is outside of the "safe zone" created by the Security Perimeter Domes for more than 5 seconds then both the Main Alarm and the specific sensor head will immediately siren.





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