



Cellular Conversion Installation Manual



PROTECT AMERICA™

Package Contents

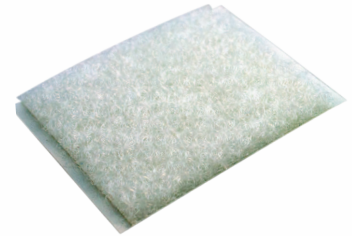
In your box you should find:



Cellular Conversion Device



(2) Wall Anchors With Screws



(1) Velcro Set



(1) Yard Sign
3 pieces



(2) Door Stickers



(2) Window Stickers



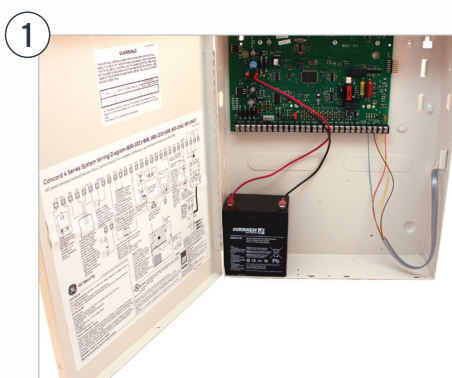
(1) Refrigerator Magnet

Installation

Before you begin:

- The best location for the cellular conversion device is near the large metal box that operates your existing home security system, also known as the main panel.
- With a large screw driver, locate and remove the knock out (a piece of metal covering an opening for wires to run through) on the side of your alarm system box. Run the WHITE, BLUE, BLACK and RED wires leading from the Cellular Conversion Device through the knocked out opening.

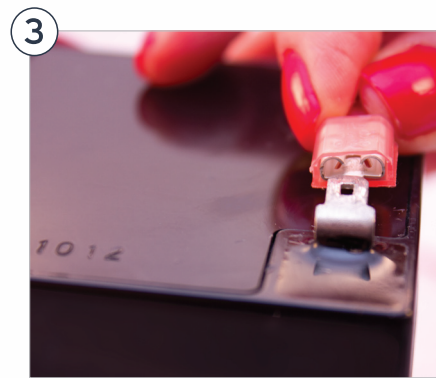
Disconnecting Your Existing Panel:



1 Locate your Control Panel (may be located in the Master closet or guest closet).

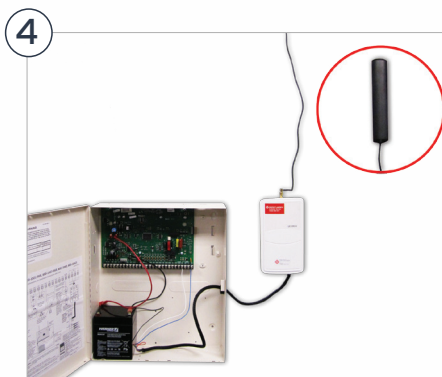


2 Disconnect the alarm panel battery starting with the red wire.

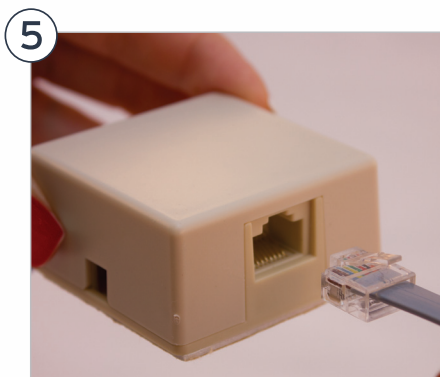


3 Disconnect the alarm panel battery black wire.

Connecting the Cellular Conversion Device:



4 Hang the Cellular Conversion Device on the wall near your panel using the included velcro adhesive. Hang the antenna as high on the wall as it will reach.



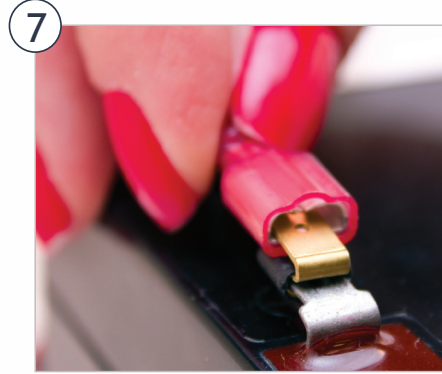
5 Plug the phone cord from the Cellular Conversion Device into the open phone jack (RJ31) connected to your Control Panel.

Installation

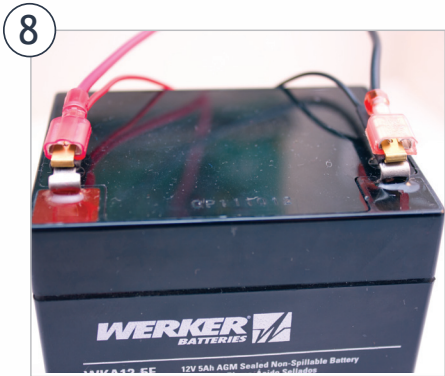
Reconnecting the battery



Connect the RED wire from the cellular conversion device to the corresponding side of the alarm panel battery. Repeat for BLACK.



Connect the RED wire leading from your existing alarm system to the splitter provided on the RED wire leading from the alarm panel battery. Repeat for BLACK.



After properly connecting the RED and BLACK wires, your existing alarm panel battery should look like this.

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The Cellular Conversion Device is now installed. The start-up sequence should begin automatically. See next page for details.

Installation

Start-Up Sequence

For a typical cellular conversion device, the expected start up sequence is as follows:

1. LED for Power will flash for 10 seconds and will then hold solid.
2. Within 30 seconds, the CELL IP LED should start to flash slowly.
3. Within 60 seconds the CELL IP LED should hold solid.
4. If this is the first power-up or first power-up after a firmware update, the unit will receive its configuration and may reboot. Steps 1 thru 3 above will then occur again.

Once Connected, the normal LED status is:

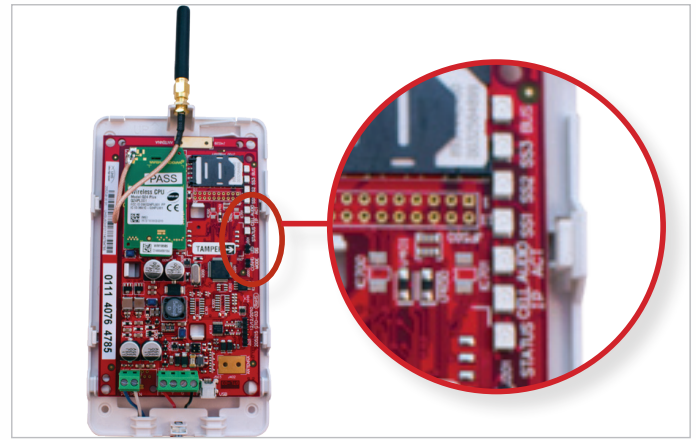
- Power LED: Solid
- Wireless Up LED: Solid
- SS1, SS2, SS3: Signal Strength LEDs indicating wireless signal strength

If this is not observed, consult the following table:

Condition	Cause	Action
Power LED off	Inadequate supplied to Cellular Conversion Device	Check 12VDC at 150mA is available
CELL IP LED off	No network coverage, SIM not activated or wireless authentication failed.	Escalate to your nominated support contact.
CELL IP LED flashing	Network connectivity good, but account is not activated in UltraAgent server.	Escalate to your nominated support contact.
SS1 flashing	The SIM card has not been activated.	Escalate to your nominated support contact.
SS2 off	The signal for wireless communications is too low	Move the antenna until SS2 s flashing or solid. A higher gain antenna may be needed.
SS2 solid or flashing	Acceptable wireless signal strength	No action needs to be taken.
SS3 solid or flashing	Excellent wireless signal strength	No action needs to be taken.

LED Diagnostics

The LEDs on your cellular conversion device indicate the **UNIT STATUS** as described below:



LED	Description
STATUS	Off means the unit is not powered Flashing means the unit is booting Solid means the unit is powered
CELL IP	Off means the unit does not have IP connectivity over GPRS Slow Flashing means the unit has an IP address but is not connected to an UltraAgent server Solid means the unit has established a secure communications session with an UltraAgent server
AUDIO ACT	Not used on this particular model cellular conversion device.
SS1, SS2, SS3	Wireless signal strength indicators. Refer to table below.
BUS	Not used on this particular model cellular conversion device.

The SS1, SS2, and SS3 LEDs indicate wireless signal strength as shown below:

SS3	SS2	SS1	Signal Strength
Off	Off	Off	No reading available (eg modem is being reset)
Off	Off	FLASH	Attempting to register on network
Off	Off	On	<-89dBm Unacceptable
Off	FLASH	On	-89dBm to -83dBm Poor
Off	On	On	-83dBm to -77dBm Good
FLASH	On	On	-77dBm to -70dBm Very Good
On	On	On	> -70dBm Excellent



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