The Guardian System®

The Latest Innovation in Technology

Installation Guide

Guardian Systems
Your Wireless Security System Leader

Introduction

Congratulations on your Guardian Systems purchase! This manual will help you install and use your new The Guardian System. If, for any reason, the instructions in this manual are not clear, please feel free to call us at 1-800-330-7413 for assistance.

Installation

Checking the Box Contents

Make sure that the following items are found in your box:
- A transmitter box
- A power supply
- An Intrusion sensor
- A High Water sensor
- A Temperature Sensor

If you ordered upgrades such as external antennae, additional sensors, or custom wiring harnesses, please check that you also received these.

NOTE: If you declined any one of the default sensors, you will not find that sensor in the box.

If you do not find any one of the above items, double check the packaging, as some of these are small and easily missed. If, after having double checked the packaging, you still do not find the above items, please contact us.

Mounting the Transmitter Box

Locating the Transmitter Box

Consider the following when locating your control box:
- **Signal Strength:** The Guardian System uses GSM cellular technology to communicate alarms and other information to our servers. Use a GSM technology cellular phone to locate a good signal. If you do not have a GSM technology phone or do not know if your phone is GSM, contact your cellular provider to find out. Using a non-GSM technology phone

to locate a good signal will work, but only in an area where many cellular companies provide service. The more companies in your area, the more likely it is that one of them uses GSM technology phones.

- **Power Source:** The control box will require a 120 volt AC outlet in order to plug in the 9 volt DC power adaptor included.
- **Sensing Application :** The transmitter box needs to be located to within 6 feet of where the sensor will be mounted, if using the included standard sensors.
- **Environment:** Always mount the transmitter box safely away from sources of water, especially when using the High Water sensor. Never mount the transmitter box outdoors, without putting it into a weatherproof enclosure, such as an IP65 rated box or NEMA 4 grade enclosure. The transmitter unit is not rated to operate below 32°F, and may not operate correctly below this point.

Mounting the Transmitter Box

NOTE 1: The back-up battery is not connected in your transmitter box when shipped. This is to prevent battery drain and possible failure. Your Guardian System will not operate if you do not connect the back-up battery.
NOTE 2: You will need a 1/8" #1 Phillips head screw driver to do the installation.
NOTE 3: To use the included foam tape, you will need a smooth mounting surface for best adhesion.
NOTE 4: If you intend to use your unit as a mobile sensing device, and do no wish to mount it, you must still connect the back-up battery, turn the unit on, and plug in the power supply. The back-up battery does not come charged.

Follow these steps to mount your transmitter box:
- Choose the sensor you wish to use and find a location within 6 feet of the sensor and within 5 feet of a 120 volt AC outlet where you can mount the transmitter box.
- Remove the 4 screws from the back of the transmitter box.
- Carefully remove the bottom lid to reveal the battery.
- Plug the battery into the polarized connector, as marked on the circuit board.
- Carefully close the box, making sure not to over tighten the 4 screws.
- Remove the clear film from the two strips of clear foam tap
- Press the transmitter box firmly against the wall in the desired location.
- Flip on the On/Off switch.
- Connect the 9 volt DC power supply to the box and plug it into the nearby outlet.

- Mount and connect the chosen sensor, using the sensor mounting instructions.

Mounting the Sensors

Sensor Mounting Tips

Here are some tips to install your sensors:
- **Testing:** Always test your sensors, in the desired location, before permanently mounting them. This saves time and the patching of many holes.
- **Location:** When using the standard sensors that come with The Guardian System, always mount them within 6 feet of the transmitter box.
- **Mounting:** Mounting with screws is always better than mounting with double sided foam tape. Use screws when possible. **NOTE:** The temperature sensor is only able to be mounted with double sided foam tape. The tape is included.

High Water Sensor

Figure 3

This sensor is as shown in Figure 3, with a 6 foot cord terminated with a 6 pin connector. Tips for mounting the High Water sensor:
- Always mount the transmitter box as high up the wall as possible from the sensor. This will protect the transmitter from water damage.
- Always mount the sensor with the float facing down. The sensor will not function if mounted upside down, on an angle, or on horizontally.
- The sensor will require about 1 inch of water to float the float high enough to trip the internal magnetic switch. Make sure to account for this when mounting.

To mount the High Water sensor:
- Find a location for the sensor no more than 6 feet from the transmitter box.
- Making sure to hold the sensor upright (with the L bracket on top and the float on the bottom), mark the location of the holes in the L bracket at the desired mounting height.
- Drill starter holes for the included screws. If you are mounting into a surface such as concrete or drywall, drill for mounting anchors (no included) instead.
- Mount the sensor by screwing it to the mounting surface with the included screws.
- With the transmitter box already turned on, plug in the sensor.
- Trip the sensor once to register it to the transmitter box.

Intrusion Sensor
The Intrusion sensor is a magnetic door/window contact style sensor, with a 6 foot cord and 6 pin plug at the end. Tips for mounting the Intrusion sensor:
- This sensor is best on structures with only one means of entry, such as a shed. If you wish to protect multiple entrances, you should contact us at 1-800-330-7413 for information about customized wiring solutions and additional sensor options.
- When mounting on a door, always mount the magnet to the door itself, on the same edge as the handle, and the detector to the doorframe. Never use this sensor near the hinge.
- When mounting on a window, always mount the magnet to the moving portion of the window, and the detector to the window frame.
- The detector and magnet must be mounted to within 3/8" of each other and must be parallel, in order for the sensor to work correctly.

To mount the Intrusion sensor:
- Locate the sensor on the door or window you wish to protect. Make sure you are within 6 feet of the transmitter box.
- Hold the detector in place on the frame of the door or window and mark the mounting holes.
- Drill starter holes for the included screws.
- Screw the detector into place on the frame.
- Hold the magnet parallel to the detector and no more than 3/8" away on the moving portion of the door or window.
- Mark the mounting holes for the magnet.

- Drill starter holes for the included screws.
- Screw the magnet into place.
- With the transmitter box already turned on, plug the cord into the transmitter box.
- Trip the Intrusion sensor once by opening and then closing the door or window to register the sensor to the unit.

Temperature Sensor

The Temperature sensor consists of a small black box at one end, with the temperature detectors inside, and a 6 foot cord terminated in a 6 pin connector. Tips for mounting the Temperature sensor:

- The Temperature sensor is an approximate sensor, which trips at 38°F and 110°F, to within +/- 1°F. Be aware that it may not trip exactly when expected, and plan accordingly.
- This sensor is the only sensor that does not come in a case that is screw mountable. It includes a piece of double-sided foam tape instead. The sensor will need a smooth surface to adhere properly.
- The sensor works best when the mounting surface is as cold as the air temperature of the area that you monitor. Sensor performance may degrade if the sensor is mounted on a heated surface.
- Sensor performance will be better if the sensor is located in the center of the area to be monitored.

To mount the Temperature sensor:
- With the transmitter box already turned on, plug in the sensor.
- Fill a small storage bag with ice cubes, seal the bag, and set the bag on top of the sensor with the metal sensing elements face up. You should hear a click indicating that the sensor has tripped. This should take no more than 5 minutes. This will register the sensor to the transmitter box.
- Dry the sensor off.
- Locate the sensor no more than 6 feet from the control box on a smooth surface.
- Peel off the clear backing from the foam tape.
- Firmly press the sensor onto the mounting surface.

Mounting Other Sensors and Special Order Sensors

Any other sensors or special order sensors will come with instructions that are separate from this instruction manual.

System Operation

Operating the System Locally

The Guardian System is designed to be an "always on" system. This means that there is no way to arm or disarm the system when used for intrusion purposes. When turning the system off, always unplug the power supply first. If you intend to leave the system off for a long time, you should unplug the sensor, then plug the unit back in. This will allow the internal battery to be maintained without damage. When turning the system back on, always unplug the power supply, flip the switch, and then plug the power supply back in. Always trip the sensor once after turning the unit back on to make sure that the sensor is registered with the transmitter box. Unplugging the sensor while the unit is on will cause an alarm, as will cutting the wire to the sensor. The standard internal back-up battery is capable of running the unit for about 6 hours with GPS and about 10 hours without. If the unit looses power while it is on, it will send a Loss of Power alarm. If the battery drains down too low, a Battery alarm will be generated. After receiving the battery alarm, the unit will still have about 2 hours of operational life left. The unit will turn off the GPS, if so equipped, when the low battery state is detected. The GPS will be turned on again once battery voltage returns to a normal level.

Operating the System Remotely

The Guardian System can be operated through our website by pointing your browser to:

https://www.guardianwireless.com/members/logon.asp

Logging In

Members Log On

Username [   ]   Password [   ]   [Log On]

Figure 8

After going to the above address, you will be presented with a logon screen. There, you may enter the username and password that you received in the

letter that was included with your system. After you enter your information and click the "Log On" button, you will be redirected to your system's events page.

The Events/History Page

Figure 9

The events page is capable of showing all of the messages your unit has ever sent. The default is to show you the alarms and system messages for the current month and year, however, you can change this by selecting a different month and/or year and clicking the nearby Go button, as highlighted in yellow in Figure 9.

The Control Page

Figure 10

The control page, shown in Figure 10, is where you can control your unit, without being physically present with a key fob to do so. The control page shows you a history of the ten most recent messages you have sent to your unit. You also have three commands available: Status, Set Static Mode, and Set Mobile Mode. To use these commands, simply select the desired command and click on the Send button. Then, after confirming the chosen command, a progress bar will display, showing you it will take 30 seconds to process your command.

Your request will take approximately 30 seconds.

Figure 11

After the 30 seconds are up, you will be redirected to the events page where you will be able to see the result of the command you chose to send.

The Preferences Page

Preferences / Account

Welcome,

You currently have 19 messages left.

Owner's Information

First Name	Demo
Last Name	Unit
Address1	500 S. 16th Street
Address2	
City	Manitowoc
State	WI
Postal Code	54220

Update   Cancel

Emails

Email 1 gwsales@guardianwire

Email 2 sales@guardianwireles

Update   Cancel

Phone Numbers

Call Order	Phone Number
Phone1	9202426320
Phone2	
Phone3	

Update   Cancel

Figure 12

The preferences page, shown in Figure 12, is where you will find displayed your name, address, and telephone numbers. You may not edit your name and address; however, you may edit your phone numbers. To edit your phone numbers, simply click in one of the boxes shown in Figure 12, and enter the number, starting with area code, without any punctuation.

For example, the phone number (123) 555-0123 would be entered 1235550123. You may enter any three phone numbers, however, you may not enter 911 or any law enforcement agency phone number, as doing so is not permitted by law.

Troubleshooting Guide

- **The transmitter box doesn't come on when I flip the On/Off switch to On:** First, open up the box and make sure that you have connected the battery to the circuit board by pushing the polarized connector into the receptacle on the circuit board. If the battery is connected, and switching the unit on does nothing, and you haven't plugged in the charger yet (first time out of the box), plug in the charger and try to charge the unit. Give the unit about 2 hours then try to turn it on again. If the transmitter still won't turn on, then the battery is dead and will need to be replaced. Contact Guardian Wireless at 1-800-330-7413 to report the trouble and to request a replacement.
- **I tripped the sensor, but I didn't receive any notifications:** First, check that you have set up your phone numbers, emails, and SMS text message recipients correctly by logging into your secure account at www.guardianwireless.com. Second, check that the transmitter box is on. Third, if you didn't follow the installation instructions completely and didn't trip the sensor once, then the sensor's first trip was used to register the sensor, not detect an alarm. Trip the sensor again to test if it works. If you still do not receive an alarm message after the second attempt, please call 1-800-330-7413 for further assistance.
- **My question isn't answered in this troubleshooting guide:** Please call 1-800-330-7413 and we will do our best to help you out. We are open from 8:00 AM to 4:30 PM CST.

FCC NOTE

This device complies with FCC Rules Part 15.
Operation is subject to the following conditions:
This device may not cause harmful interference
This device must accept any interference that may be received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by Guardian Systems, LLC. can void the user's authority to operate the equipment.

Warranty Information

LIMITED WARRANTY. Guardian Systems warrants to the original retail purchaser, that if a Product is found to be defective in material or workmanship, within one year from the date of purchase, Guardian Systems shall, at its sole and absolute discretion, repair or replace it with a new or reconditioned Product of the same or more recent model in exchange for the defective Product. This limited warranty applies only if proof of purchase presented at the time claim is made.

This limited warranty does not cover and is void with respect to: (i) physical damage to the surface of the Product, including cracks or scratches; (ii) cosmetic damage; (iii) any Product which has been improperly installed, repaired or modified; (iv) any Product which has been subject to misuse (including any Product used in conjunction with hardware electrically or mechanically incompatible), abuse, physical damage, abnormal operation, incorrect line voltage, improper handling, neglect, lightning, electrical surges, exposure to excessive moisture or dampness or extreme changes in climate or temperature; (v) any Product damage due to accident, fire, flood, and/or other acts of God, improper commercial use or damage that occurs in shipping; (vi) any Product on which factory-installed Product access numbers or serial numbers have been removed, altered or rendered illegible; (vii) consumables (such as batteries). Transportation to and from the authorized service center is the customer's responsibility.

EXTENDED LIMITED WARRANTY. If you have purchased our Extended Limited Warranty, we will extend the Limited Warranty explained above for the term on a year to year basis The Extended Limited Warranty will be available in One, Two or Three year increments Extended warranty is available upon purchase of the unit or within the last thirty days of the initial warranty term. You must notify us by telephone, e-mail or written notice at least 30 days before the end of the then-current yearly term to sign up for the extended warranty.

WARRANTY EXCLUSIONS. The limited warranty and, if purchased, the extended limited warranty do not apply if we determine upon inspection that any of the following conditions caused the need for service: A. Damage resulting from accidents, Acts of God, alterations or misuse; B. You fail to properly follow the operating or installation instructions; C. Trouble in a telephone line or due to interruption of power; D. Repairs needing batteries; E. Ordinary maintenance or wear and tear; F. Alterations to your premises; or G. Alterations to the system made at your request, or made necessary by a change to your premises, damage to your premises or the alarm system, or for any other cause beyond our control.

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