

# PROTEK WIRELESS™



## **IMPORTANT!** **PLEASE READ CAREFULLY AND SAVE.**

This user's manual contains important information about your Smoke Alarm's operation. If you are installing this Smoke Alarm for use by others, you must leave this manual – or a copy of it – with the end user.

## **FIRE SAFETY TIPS**

Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed 2) Keep matches or lighters away from children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits; 5) Keep stoves, barbecue grills, fireplaces and chimneys grease- and debris-free; 6) Never leave anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like candles, away from flammable materials; 8) Don't let rubbish accumulate.

Keep alarms clean, and test them weekly. Replace alarms immediately if they are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every floor, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper floor in case stairs are blocked.

## **BEFORE YOU INSTALL THIS SMOKE ALARM**

**Important!** Read "Recommended Locations for Smoke Alarms" and "Locations to Avoid for Smoke Alarms" before beginning. This unit monitors the air, and when smoke reaches its sensing chamber, it alarms. It can give you more time to escape before fire spreads. This unit can ONLY give an early warning of developing fires if it is installed, maintained and located where smoke can reach it, and where all residents can hear it, as described in this manual. This unit will not sense gas, heat, or flame. It cannot prevent or extinguish fires.

### **Understand The Different Type of Smoke Alarms**

Battery powered electrical? Different Smoke Alarms provide different types of protection. See "About Smoke Alarms" for details.

### **Know Where to Install Your Smoke Alarms**

Fire Safety Professionals recommend at least one Smoke Alarm on every level of your home, in every bedroom, and in every bedroom hallway or separate sleeping area. See "Recommended Locations for Smoke Alarms" and "Locations to Avoid for Smoke Alarms" for details.

### **Know What Smoke Alarms Can and Can't Do**

A Smoke Alarm can help alert you to fire, giving you precious time to escape. It can only sound an alarm once smoke reaches the sensor. See "Limitations of Smoke Alarms" for details.

### **Check Your Local Building Codes**

This Smoke Alarm is designed to be used in a typical single-family home. It alone will not meet requirements for boarding houses, apartment buildings, hotels or motels. See "Special Compliance Considerations" for details.

### **⚠WARNING!**

- This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
- Do not connect this unit to any other alarm or auxiliary device. It is a single-station unit that cannot be linked to other devices. Connecting anything else to this unit may prevent it from working properly.
- Unit will not operate without battery power. The Smoke Alarm cannot work until you install the batteries in the correct position (Match "+" to "+" and "-" to "-").

### **⚠CAUTION!**

- Do not install this unit over an electrical junction box. Air currents around junction boxes can prevent smoke from reaching the sensing chamber and prevent the unit from alarming. Only AC powered units are intended for installation over junction boxes.
- Do not stand too close to the unit when the alarm is sounding. It is loud to wake you in an emergency. Exposure to the horn at close range may harm your hearing.

## **RECOMMENDED LOCATIONS FOR SMOKE ALARMS**

### **Installing Smoke Alarms in Single-Family Residences**

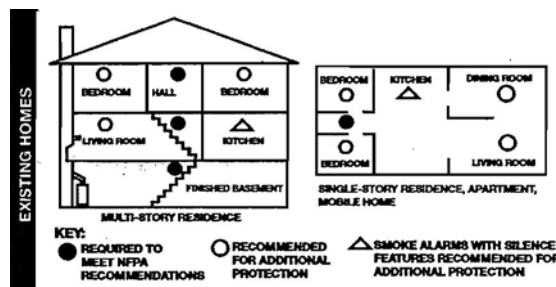
The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, in every sleeping area, and in every bedroom. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a Smoke Alarm in rooms, halls, storage areas, finished attics, and basements, where temperatures normally remain between 40° F (4° C) and 100° F (38° C). Make sure no door or other obstruction could keep smoke from reaching the Smoke Alarms.

### **More specifically install Smoke Alarms:**

- On every level of your home, including finished attics and basements.
- Inside every bedroom, especially if people sleep with doors closed
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an alarm at each end
- At the top of the first-to-second floor stairway and at bottom of basement stairway

### **IMPORTANT!**

Specific requirements for Smoke Alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. **It is recommended for units to be interconnected for added protection.**



### **IMPORTANT!**

This equipment should be installed in accordance with NFPA (National Fire Protection Association) 72 and 101. National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. **Additional local building and regulatory codes may apply in your area. Always check compliance requirements before beginning any installation. This model is not R.V. listed with Underwriters Laboratories Inc.**

### **AGENCY PLACEMENT RECOMMENDATIONS**

#### **NFPA 72 (National Fire Code)**

Smoke Alarms shall be installed in each separate sleeping room, outside each sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit, including basements and excluding crawl spaces and unfinished attics.

In new construction, Alarms shall be so arranged that operation of any one Alarm shall cause the operation of all Alarms within the dwelling.

**Smoke Detection-Are More Smoke Alarms Desirable?** The required number of Smoke Alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required Smoke Alarms. For this reason, it is recommended that the householder consider the use of additional Smoke Alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required Smoke Alarms. The installation of Smoke Alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

**\*All PROTEKWIRELESS™ Alarms conform to regulatory requirements including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.**



Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires, may include paper burning in a wastebasket, or a grease fire in the kitchen.



Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding.

## LOCATIONS TO AVOID FOR SMOKE ALARMS

For best performance, it is recommended you AVOID installing Smoke Alarms in these areas:

- Where combustion particles are produced Combustion particles form something burns. Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot (6-meter) distance is not possible — in modular, mobile, or smaller homes, for example - it is recommended the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce “unwanted” alarms. Unwanted alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.
- In air streams near kitchens. Air currents can draw cooking smoke into the sensing chamber of a Smoke Alarm near the kitchen.
- In very damp, humid or steamy areas, or directly near bathrooms with showers. Keep units at least 10 feet (3 meters) away from showers, saunas, dishwashers, etc.
- Where the temperatures are regularly below 40° F (4° C) or above 100° F (38° C), including unheated buildings, outdoor rooms, porches, or unfinished attics or basements.
- In very dusty dirty, or greasy areas. Do not install a Smoke Alarm directly over the stove or range. Keep laundry room Smoke Alarms free of dust or lint.
- Near fresh air vents, ceiling fans, or in very drafty areas. Drafts can blow smoke away from the unit, preventing it from reaching the sensing chamber.
- In insect infested areas. Insects can clog openings to the sensing chamber and cause unwanted alarms.
- Less than 12 inches (305mm) away from fluorescent lights. Electrical “noise” can interfere with the sensor.
- In “dead air” spaces. “Dead air” spaces may prevent smoke from reaching the Smoke Alarm

### Avoiding Dead Air Spaces

“Dead air” spaces may prevent smoke from reaching the Smoke Alarm. To avoid dead air spaces, follow the installation recommendations below.

**On ceilings,** install Smoke Alarms as close to the center of the ceiling as possible. If this is not possible, install the Smoke Alarm at least 4 inches (102 mm) from the wall or corners.

**For wall mounting** (if allowed by building codes), the top edge of Smoke Alarms should be placed between 4 and 12 inches (102 and 305 mm) from the wall/ceiling line, below typical “dead air” spaces.

**On a peaked, gabled, or cathedral ceiling,** install the first Smoke Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke Alarms may be required depending on the length, angle, etc. of the ceiling’s slope. Refer to NFPA 72 for details on requirements for sloped or peaked ceilings.

## REGULAR MAINTENANCE

This unit has been designed to be as maintenance free as possible, but there are a few simple things you must do to keep it working properly.

### WARNING!

**Use only the replacement batteries listed below. The unit may not operate properly with other batteries. Never use rechargeable batteries since they may not provide a constant charge.**

Test it at least once a week.

Clean the Smoke Alarm at least once a month; gently vacuum off any dust using your household vacuum’s soft brush attachment, and test the Smoke Alarm after cleaning, never use water cleaners or solvents since they may damage the unit

If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted alarms, replace the unit immediately

Relocate the unit if it sounds frequent unwanted alarms. See “Locations to Avoid for Smoke Alarms” for details.

When the interconnection batteries become weak (AA), the Smoke Alarm unit will “beep” twice approximately once a minute (the low battery warning).

When the Smoke Alarm battery becomes weak (9volt), the Smoke alarm unit will “beep” once approximately once a minute (the low battery warning).

This (low battery warning) should last for up to 30 days, but you should replace the battery immediately to continue your protection.

AA replacement batteries: Use only Duracell MN1500 AA batteries in this unit.\*

## LIMITATIONS OF SMOKE ALARMS

Smoke Alarms have played a key role in reducing deaths resulting from home fires worldwide. However, like any warning device, Smoke Alarms can only work if they are properly located, installed, and maintained, and if smoke reaches them. They are not foolproof.

**Smoke alarms may not waken all individuals.** Practice the escape plan at least twice a year, making sure that everyone is involved - from kids to grandparents. Allow children to master fire escape planning and practice before holding the drill at night when they are sleeping. If children or others do not readily waken to the sound of the smoke alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in fire drill and in the event of an emergency. It is recommended that you hold fire drills while family members are sleeping in order to determine their response to the sound of the smoke alarm while sleeping and to determine whether they may need assistance in the event of an emergency

**Smoke Alarms cannot work without power.** Battery operated units cannot work if the batteries are missing, disconnected or dead, if the wrong type of batteries are used, or if the batteries are not installed correctly.

**Smoke Alarms cannot detect fires if the smoke does not reach them.** Smoke from fires in chimneys or walls, on roofs, or on the other side of closed doors may not reach the sensing chamber and set off the alarm. That is why one unit should be installed inside each bedroom or sleeping area — especially if bedroom or sleeping area doors are closed at night — and in the hallway between them.

**Smoke Alarms may not detect fire on another floor or area of the home.** For example, a stand-alone unit on the second floor may not detect smoke from a basement fire until the fire spreads. This may not give you enough time to escape safely. That is why recommended minimum protection is at least one unit in every sleeping area, and every bedroom on every level of your home. Even with a unit on every floor, stand-alone units may not provide as much protection as interconnected units, especially if the fire starts in a remote area. Some safety experts recommended installing interconnected units, or professional fire detection systems, so if one unit senses smoke, all units alarm. Interconnected units may provide earlier warning than stand-alone units since all units alarm when one detects smoke.

**Smoke Alarms may not be heard.** Though the alarm horn in this unit meets or exceeds current standards, it may not be heard if: 1) the unit is located outside a closed or partially closed door, 2) residents recently consumed alcohol or drugs, 3) the alarm is drowned out by noise from stereo, TV, traffic air conditioner or other appliances, 4) residents are hearing impaired or sound sleepers. Special purpose units, like those with visual and audible alarms, should be installed for hearing impaired residents.

**Smoke Alarms may not have time to alarm before the fire itself causes damage, injury or death, since smoke from some fires may not reach the unit immediately. Examples of this include persons smoking in bed, children playing with matches, or fires caused by violent explosions resulting from escaping gas.**

**Smoke Alarms are not foolproof.** Like any electronic device, Smoke Alarms are made of components that can wear out or fail at any time. You must test the unit weekly to ensure your continued protection. Smoke Alarms cannot prevent or extinguish fires. They are not a substitute for property or life insurance.

**Smoke Alarms have a limited life.** The unit should be replaced immediately if it is not operating properly. You should always replace a Smoke Alarm after 10 years from date of purchase.

Smoke alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

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\* Document ID # IW101A-M2

## HOW TO PROGRAM & INSTALL INNOTEK CORP. PROTEKWIRELESS™ (IW-101A) SMOKE ALARM



### QUICK INSTALLATION INSTRUCTIONS

#### TOOLS YOU WILL NEED:

This unit is designed to be mounted on the ceiling, or on the wall if necessary.

- Pencil
- Drill with 3/16" (5 mm) drill bit
- Phillips screwdriver
- Hammer

### QUICK PROGRAMMING INSTRUCTIONS

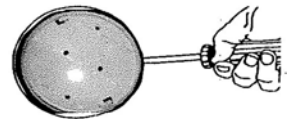
1. Remove Smoke Alarms from their boxes.
2. Remove the mounting plate to access the battery compartment. "Use 1/4 turn counter/clockwise."
3. Remove the red plastic tag from the (AA) battery compartments of each unit. "Then make sure the 9 volt battery is in the correct position (Match "+" to "+" and "-" to "-")."
4. Choose one Alarm to be the Master Alarm (for digitally encoding purposes only). "Press the LEARN button until LED lights GREEN" which is 2 clicks from the Red Position. (Set Aside for now)  
**NOTE: Now choose the remaining Alarms to be digitally encoded and repeat steps 1,2 and 3.**
5. Now take all the Alarms except the Master Alarm "One at a time" and press there LEARN button until they all show a RED color LED.
6. **Press and Hold the TEST button** on the Master Alarm for approximately 30 seconds, You will hear the horn on all Alarm units, and this means the digitally encoding was properly done. (If you do not hear all Alarm units horn sounding then repeat steps "4 thru 6").

**You have now successfully Digitally Encoded your new PROTEKWIRELESS™ Smoke Alarms.**

### FOLLOW THESE SIMPLE STEPS!

#### IMPORTANT!

1. Hold base firmly and twist the mounting bracket counterclockwise to separate it from the base.
2. Hold the mounting bracket against the ceiling (or wall so the vertical mounting slot is aligned in the 12 o'clock position. Mark with your pencil the location of the mounting holes.
3. Put the unit where it won't get covered with dust when you drill the mounting holes.
4. Using a 3/16 drill bit, drill holes in the places marked on wall or ceiling.
5. Insert the plastic screw anchors (in the plastic bag with screws) into the holes. Tap the screw anchors gently with a hammer, if necessary until they are flush with the ceiling or wall.
6. Line the mounting bracket up over the plastic screw anchors.
7. Screw the mounting bracket the ceiling or wall through the mounting slots using the two screws provided.
8. Attach the Smoke Alarm to the mounting bracket. Line up the guides on the alarms base with the guides on the mounting bracket When guides are lined up, turn the base clockwise (right) until it snaps into place.
9. Test the Smoke Alarm. See "Weekly Testing"



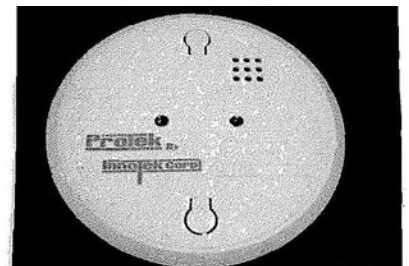
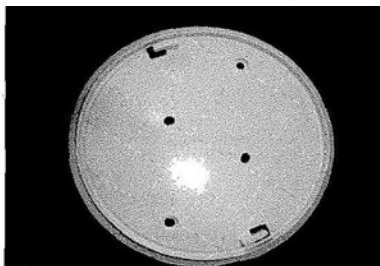
### WEEKLY TESTING



- NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit's operation as required by Underwriters Laboratories, Inc. (ULI.).
- If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" for details.
- DO NOT stand close to the alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.

**It is important to test this unit every week to make sure it is working properly.**

Using the test button is the recommended way to test this Smoke Alarm. Press and hold the test button on the cover of the unit until the alarm sounds (the unit may continue to alarm for a few seconds after you release the button). If it does not alarm, make sure the unit is receiving power (LED will flash approximately once a minute indicating it has power); and test it again If it still does not alarm, replace it immediately. During testing you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, and pause.



## ⚠CAUTION!

Changes or modifications not expressly approved by INNOTEK CORPORATION could void the user's authority to operate the equipment

## IF THIS SMOKE ALARM SOUNDS

### RESPONDING TO AN ALARM

During an alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause. The LED will flash rapidly.

### ⚠WARNING!

- If the unit alarms and you are not testing the unit it is warning you of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in injury or death.
- Never remove the batteries from a battery operated Smoke Alarm to stop an unwanted alarm (caused by cooking smoke, etc.). Removing batteries disables the alarm so it cannot sense smoke, and removes your protection. Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.
- If the unit alarms get everyone out of the house immediately.

## WHAT TO DO IN CASE OF FIRE

- Don't panic; stay calm. Follow your family escape plan.
- Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
- Feel doors with the back of your hand before opening them. If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
- Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths.
- Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.
- Call the Fire Department as soon as possible from outside. Give your address, then your name.
- Never go back inside a burning building for any reason.
- Contact your Fire Department for ideas on making your home safer.

### ⚠WARNING!

Alarms have various limitations. See "Limitations of Smoke Alarms" for details.

### IF YOU SUSPECT A PROBLEM

Smoke Alarms may not operate properly because of dead, missing or weak batteries, a build-up of dirt dust or grease on the Smoke Alarm cover or installation in an improper location. Clean the Smoke Alarm as described in "Regular Maintenance," and install a fresh battery then test the Smoke Alarm again. If it fails to test properly when you use the test button, or if the problem persists, replace the Smoke Alarm immediately.

- If you hear one "beep" about once a minute, replace (9volt) battery.
  - If you hear two "beeps" about once a minute, replace (AA) batteries.
  - If you experience frequent non-emergency alarms (like those caused by cooking smoke), try relocating the Smoke Alarm.
  - If the alarm sounds when no smoke is visible, try cleaning or relocating the Smoke Alarm. The cover may be dirty
  - If the alarm does not sound during testing, try installing a new battery, and make sure it is snapped in securely.
  - **Do not try fixing the Alarm yourself- this will void your warranty!**
- If the Smoke Alarm is still not operating properly and it is still under warranty please see "How to Obtain Warranty Service" in the Limited Warranty.

**FCC NOTICE:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## PROTEKWIRELESS™

**INNOTEK CORPORATION**  
**11616 E. Montgomery Suite #4**  
**Spokane Valley, WA 99206**

## SPECIAL COMPLIANCE CONSIDERATIONS

### ⚠WARNING!

This Smoke Alarm alone is not suitable substitute for complete fire detection systems in places housing many people – like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, long-term health care facilities, nursing homes, day care facilities, or group homes of any kind – even if they were once single-family homes. It is not a suitable substitute for complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and alarm systems. Depending on the building codes in your area, this Smoke Alarm may be used to provide additional protection in these facilities.

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. In existing construction, AC, AC/DC, or DC powered Smoke Alarms can be used as specified by local building codes. Refer to NFPA 101 (Life Safety Code) or NFPA 72 (National Fire Alarm Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as households.

For your information, the National Fire Protection Association's Standard 72, reads as follows:

2-2.1.1.1 Smoke detectors shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit including basements and excluding crawl spaces and unfinished attics. In new construction, a smoke detector shall be installed in each sleeping room.<sup>2</sup>

2A-2.5.2.1 Smoke Detection - Are More Smoke Detectors Desirable? The required number of smoke detectors might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke detectors. For this reason, it is recommended that the householder consider the use of additional smoke detectors for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke detectors. The installation of smoke detectors in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.<sup>2</sup>

## LIMITED WARRANTY

INNOTEK CORPORATION the maker of (PROTEKWIRELESS™) brand products warrants that for a period of ten years from the date of manufacture, this product will be free from defects in material and workmanship. INNOTEK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component if the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original homeowner from the date of manufacture and is not transferable. Proof of purchase is required to obtain warranty performance. INNOTEK dealers, service centers, or wholesale stores selling INNOTEK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current use contrary to the operating instructions, disassembly repair or alteration by anyone other than INNOTEK CORPORATION or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

INNOTEK CORPORATION shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty except to the extent prohibited by applicable law any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

### How to Obtain Warranty Service

**Service:** If service is required, return the product to your contractor. In order to obtain warranty service, contact the Customer service department at 1-877-476-8133, 9:00 AM - 5:00 PM Pacific Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of install available when calling.

**Battery:** INNOTEK CORPORATION make no warranty express or implied; written or oral, including that of merchantability or fitness for any particular purpose with respect to battery.