

NEXXTECH™
MC

6312026



Wireless In/Out Thermometer with Atomic Clock

USER'S MANUAL

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Introduction

Thank you for selecting the Wireless In/Out Thermometer with Atomic Clock. This device combines precise time keeping with monitoring and displaying of current temperature conditions from up to 3 remote locations.

In this package you will find:

- One main unit (receiver)
- One remote sensor (transmitter)
- One User's Manual

Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

Product Overview

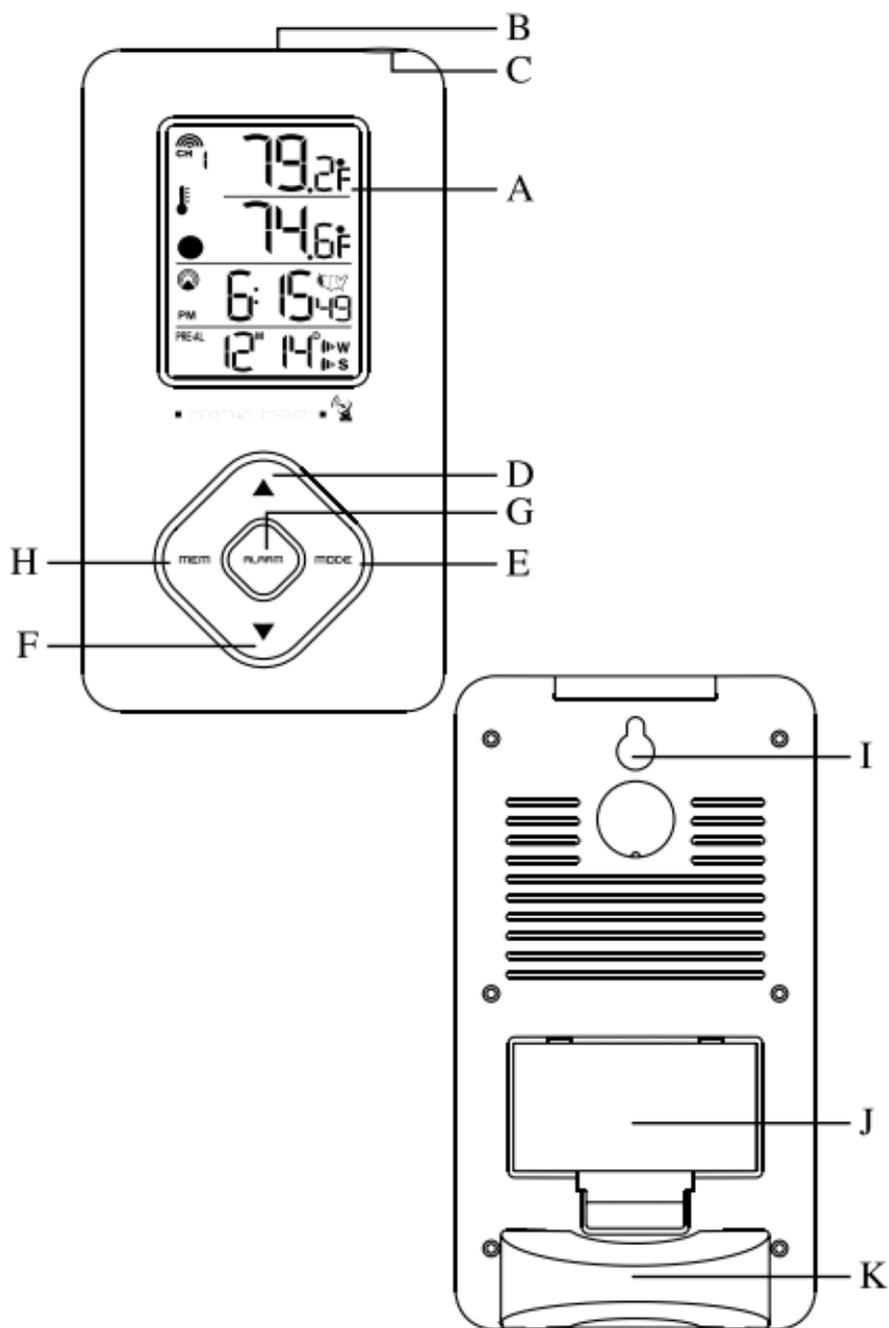
MAIN UNIT

Features

- Time automatically sets to the US Atomic Clock
- 12 or 24 hour Time Format
- Dual crescendo Time Alarm with Snooze
- Multi language day of the week displayed in English, French, Spanish, German, or Italian
- Long-Range Wireless Reception of the Temperature from the Remote Sensor to the Main Unit up to 60 meters (200 feet) away
- Multi-Channel Capability to monitor temperature in up to 3 remote locations
- Minimum and maximum memory for indoor and remote temperature
- Indoor and Remote Temperature display
- Programmable Ice Warning Alarm
- Low Battery Indicators
- Enhanced Blue Backlight

Product Overview

FRONT/REAR VIEW



Product Overview

A. TEMPERATURE AND TIME IN LARGE EASY-TO-READ DIGITS

B. SNOOZE/LIGHT button

- Stops the clock's alarm temporarily
- Activates a blue backlight for 5 seconds

C. CHANNEL button

- Recalls a different remote sensor reading - 1, 2, or 3
- Activates a remote channel search

D. UP (▲) button

- Increases the parameters
- Activates Time Zone selection mode
- Activates manual search for atomic signal
- Enables time alarms (W), (S) and ICE WARNING ALARM

E. MODE button

- Toggles between time modes - time with seconds or time with the day of the week
- Activates clock's manual programming mode

F. DOWN (▼) button

- Decreases the parameters
- Activates manual remote channel search
- Disables time alarms (W) and (S) and ICE WARNING ALARM

G. ALARM button

- Allows toggling between the calendar display and three time alarm modes
- Allows programming of available alarms

H. MEM button

- Toggles between current, minimum, maximum readings of the indoor and remote temperature
- Clears the temporary memory

I. WALL-MOUNT RECESSED HOLE

- Keeps the unit on the wall

J. BATTERY COMPARTMENT

- Accommodates 2 "AA" 1.5V alkaline batteries (not included)

K. REMOVABLE TABLE STAND

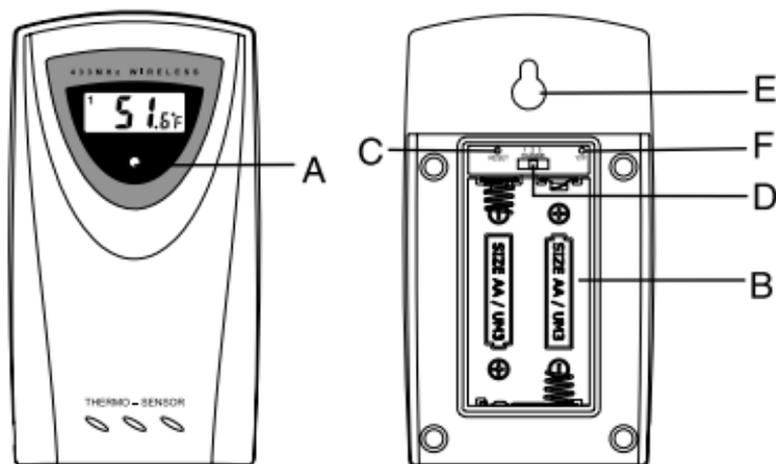
- Holds unit in upright position on a flat surface

Product Overview

REMOTE SENSOR

Features

- Remote temperature transmission to the main unit via 433 MHz frequency
- Case can be wall mounted using built-in hanger
- Selection of the temperature display in Celsius or Fahrenheit
- Three channel selection
- LCD displays temperature, and channel



A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit.
- Flashes twice when the battery power is low.

B. BATTERY COMPARTMENT

- Holds 2 "AA" size batteries (not included).

C. RESET

- Resets all previous settings.

D. CHANNEL SWITCH

- Selects the desired channel - 1, 2 or 3.

E. WALL-MOUNT RECESSED OPENING

- Keeps the remote sensor on the wall.

F. °C/°F SWITCH

- Selects the temperature display in Celsius or Fahrenheit.

Before You Begin

- We recommend using alkaline batteries for the remote sensor and main units when the temperatures are above 0 °C (32 °F). We recommend using lithium batteries for the remote sensor when the temperatures are below 0 °C (32 °F).
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements).
- **ALWAYS** install batteries in the **remote** sensor **before** the main unit.
- Insert batteries before first use, matching the polarity in the battery compartment.
- Press **RESET** after each battery change with a paper clip or similar tool.
- Remove protective plastic screen from LCD display (if any).
- During initial setup, place the main unit close to the remote sensor.
- After reception is established (the remote temperature will appear on the main unit's display), position the remote sensor and the main unit within the effective transmission range of 60 meters (200 feet).
- The remote sensor can be placed **indoors or outdoors, depending on the area where the temperature is intended to be measured.** If you intend to measure outdoor conditions place the remote sensor outdoors.
- The main unit must always be placed indoors.

NOTE:

1. Avoid pressing any buttons on the main unit **before the remote reading are displayed.**
2. The effective operating range may be influenced by the surrounding building materials and how the receiver and transmitter are positioned.
3. Place the remote sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls and furniture.
4. Though the remote sensors are weather-resistant, they should be placed away from direct sunlight, rain or snow. The optimal location for the remote sensor outdoors is under the eaves on the north side of the building.

Battery Installation

NOTE: When the temperature falls below freezing, the batteries in the outdoor remote sensor may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 0°C (32°F) and below.

REMOTE SENSOR

NOTE: Install the batteries; select the channel and temperature display reading in °C or °F before mounting the remote sensor.

- Remove the screws from the battery compartment with a small Phillips screwdriver (not included).
- Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Set the desired temperature format (°C or °F) using a pointed pin.
- Install 2 “AA” size alkaline batteries (not included), matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the remote sensor in the desired location.

MAIN UNIT

- Remove the battery compartment door.
- Install 2 “AA” 1.5V alkaline batteries (not included) and matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

Low Battery Warning

A low-battery indicator [🔋] will appear next to the indoor or remote data reading line, of the main unit, warning that the corresponding batteries need replacement.

Getting Started

TEMPERATURE DISPLAY

Once the batteries have been installed, the remote sensor will transmit temperature data at 45 second intervals. The main unit may take up to two minutes to receive the initial readings. Upon successful reception, the remote temperature will appear on the top line of the main unit's display (the default remote channel is channel one). The main unit will automatically update readings at 45 second intervals.

Once communication between the main unit and remote sensor has been established, secure the remote sensor in the desired location.

If no signal is received from the remote sensor within two minutes, dashes [---] will be displayed. Press and hold the **DOWN** (▼) button on the main unit for two seconds to initiate another signal search.

Placement of the Units

The main unit can be placed on any flat surface **indoors**. The remote sensor can be placed **indoors** or **outdoors**, on a flat surface or mounted on the wall.

Remote and Indoor Temperature

The remote temperature information line is located on the top line of the main unit's display.

The wave icon is located above the remote channel number to indicate the reception status from the corresponding remote sensor.

Three different types of reception status may be displayed.

The unit is in search mode.	
Temperature reading is successfully registered.	
No signals detected.	

The indoor temperature with the icon  is displayed below the remote temperature information line.

NOTE: If the indoor or remote temperature goes above or below the operating range stated in the specifications, the main unit's display (weather) will show dashes "---" on the corresponding line.

Maximum and Minimum Readings

The maximum and minimum records of the indoor and remote temperature will be automatically stored in the memory of the main unit (receiver).

To display the minimum, maximum or the current reading press the **MEM** button.

If no button is pressed in the next 15 seconds, the unit will return to its current temperature display.

To clear the memory, press and hold the **MEM** button for two seconds and all previous stored readings will be erased.

Lost Communication

If the main unit display line for the remote sensor reading goes blank, press and hold the **DOWN** (▼) button for 2 seconds to begin a new signal search. If the signal still cannot be received, please ensure the following:

- The remote sensor is in the proper location.
- The distance between the main unit and remote sensor(s) is not over 60 meters (200 feet).
- The path between the units are clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both the remote sensor and the main unit.

If there is no reception, please perform the following steps:

- Bring the main unit and remote sensor closer together.
- Remove the 4 small screws from the back of the remote sensor with a small Phillips screwdriver, and open the battery compartment.
- Remove the batteries from the battery compartment and reinstall them in the same manner. The remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- On the main unit select the same channel number using the **CHANNEL** button as set on the remote sensor. The remote temperature will appear on the main unit's display to show that transmission has been received successfully.

Transmission Interference

Signals from other household devices such as wireless doorbells, home security systems, and entry control, may interfere with this product or cause temporary reception interruption. This is normal and will not affect the general performance of the product. The transmission and reception of the temperature readings will resume once the interference subsides.

WWVB Radio Controlled Time

The NIST (National Institute of Standards and Technology) radio station (WWVB) is located in Ft. Collins, Colorado. It transmits an exact time signal continuously throughout most of North America at 60 KHz frequency. This unit can receive the WWVB signal through the internal antenna from up to 3,218 kms (2,000 miles) away. Due to the nature of the Earth's ionosphere, reception can be limited during the daylight hours. The radio controlled clock will search for an alternate station that receives the atomic time signal from the NIST Atomic clock in Boulder, Colorado.

The WWVB tower icon on the unit's display will flash indicating a radio signal reception from the WWVB station. If the tower icon is not fully lit, or if the time and date are not set automatically, please consider the following:

- During nighttime hours, atmospheric disturbances are typically less severe and radio reception may improve. A single daily reception is sufficient enough to keep the clock accuracy within one second.
- Make sure the unit is positioned at least 2 meters (8 feet) away from any interference source such as a TV, computer monitor, microwave, etc.
- Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the unit near the window for better reception.

Atomic Clock

Immediately after establishing communication between the main unit and remote sensor, the atomic time signal receiver will open and start to search for the atomic time signal. The search usually takes between 5-8 minutes.

NOTE: Do not press any buttons on the main unit during auto search as it may interrupt the search and you will need to start the set up procedure again.

Once the atomic time signal is received, the date and time will be set automatically, and the  icon will appear.

NOTE: It is necessary to set your Time Zone. Keep in mind that the default zone is a US Pacific Standard Time (PST). (Refer to the **Manual Settings** section).

If the time signal has not been received within 8 minutes, you may use the **MODE** button to set the time and date manually. (Refer to the **Manual Settings** section).

If the clock is set manually, place the unit by the window for better reception. The atomic clock receiver is automatically programmed to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

Once the time signal has been successfully received, the time and date will be updated automatically.

Time and Calendar Display Modes

The clock time has two display modes -
in *hour-minutes-seconds* format or
in *hour-minutes-day* format.

The date is displayed in *month-date* format.

Manual Settings

It is necessary to set the desired **TIME ZONE**.

TIME ZONE

- Press the **MODE** button **once** so that the **Day of the Week** abbreviation is displayed to the right of the time; for example: **pm 2:37tu**.
- Select the Time Zone by pressing and holding the **UP (▲)** button for 3 seconds.
- Keep holding the **UP (▲)** button until the desired Time Zone (Pacific, Mountain, Central or Eastern) is highlighted on the display's US map, located to the right of the time display and above the Day of the Week.
- Release the **UP(▲)** button. The Time Zone is now set.

CLOCK

- Press the **MODE** button for 3 seconds: the year will flash. Press **UP (▲)** or **DOWN (▼)** to set the desired year.
- Once the year is set, press **MODE** button to confirm and move to month setting.
- Continue setting month, date, hour, minutes, language for the day of the week and temperature in Celcius or Fahrenheit.
- Press **MODE** when finished to return to normal time display.

Clock Alarms

There are two time alarms - Weekday alarm (**W**) and Single day alarm (**S**) - and one Ice Warning alarm (**PRE-AL**).

- If **Weekday (W)** alarm is activated, it will sound at the set time and the alarm icon will flash from Monday through to Friday.
- If **Single (S)** day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- If **Ice Warning (PRE-AL)** alarm is activated, the alarm will sound at the set time and the alarm icon will flash once the remote temperature for Channel One (1) reaches 0°C (32 °F) and below.

NOTE: Ice Warning alarm can be set only if one or both - Weekday or Single alarm - are programmed.

Clock Alarms

SETTING THE WEEKDAY (W) AND SINGLE DAY (S) ALARMS

- Press the **ALARM** button **once** to enter the alarm setting mode. The default alarm is a Weekday alarm (**W**). The abbreviation “**OFF**” with a letter “**W**” next to it will be displayed, if the alarm has not been previously set.
- Press and hold the **ALARM** button for two seconds. The hour digit will flash.
- Adjust the hour using **UP** (▲) or **DOWN** (▼) buttons.
- Press the **ALARM** button again. The minute digits will flash.
- Adjust the minutes using **UP** (▲) or **DOWN** (▼) buttons.
- Press the **ALARM** button again to confirm and the weekday alarm time will be set.
- Set **Single (S)** day alarm if desired in the same manner.

SETTING THE ICE WARNING ALARM (PRE-AL)

If **Weekday (W)** or **Single day (S)** alarm is set, the **Ice Warning (PRE-AL)** alarm can be programmed.

- Press the **ALARM** button **once** to enter into the Ice Warning alarm setting mode. The abbreviation “**OFF**” with a “**PRE-AL**” next to it will be displayed.
- Press and hold the **ALARM** button for **two seconds**. The number **30** will flash, which indicates that if selected, the alarm will sound 30 minutes earlier than the Weekday or Single alarm.
- Select the desired Ice Warning alarm interval in 15 minutes increments between 15 and 90 minutes, using the **UP** (▲) or **DOWN** (▼) buttons.
- Press **ALARM** button to confirm and exit from the alarm setting mode.

ACTIVATING THE ALARM

- Press the **ALARM** button **once** to enter the desired alarm mode.
- Press **UP** (▲) to activate or **DOWN** (▼) to deactivate desired alarm. When alarms are activated, the corresponding icons **W**, **S** or **PRE-AL** will be displayed.

Snooze

When the alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop it. The alarm will sound again in four minutes. If the alarm is not disabled after that, it will sound for two more minutes and then will stop automatically.

Backlight

The backlight feature is enabled only after the time is set. To activate the backlight, press the **SNOOZE/LIGHT** button once, and both the clock and temperature displays will light up for 5 seconds.

Precautions

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:

- Do not immerse the unit in water.
- Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the product to excessive force, shock, dust, temperature or humidity, which may result in malfunctions, shorter life span, damaged batteries, and damaged parts.
- Do not tamper with the units internal components. Doing so will invalidate the warranty and may cause damage. These units contain no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the User's Manual thoroughly before operating the units.

Troubleshooting

Check here before contacting customer service.

ISSUE	SYMPTOM	SOLUTION
MAIN UNIT	Atomic Time signal is not received	Place unit by the window and keep it there overnight
REMOTE SENSOR	Cannot locate remote sensor	Check batteries
		Check location
		Press and hold DOWN (▼) button on the main unit to search for the signal from the remote sensor
	Cannot change the channel	Press " RESET " after setting the channel
	Cannot change the °C to °F and back	Press " RESET " after setting the °C/°F
Data does not match data on the main unit	Initiate manual sensor search (Press and hold DOWN (▼) button on the main unit)	

Specifications

MAIN UNIT

Indoor Temperature

Proposed Operating Range: -5°C to +50°C
(23.0°F to 122.0°F)

Temperature Resolution: 0.1°C (0.2°F)

User Selectable (°C or °F) Temperature Display

Maximum Number of remote sensors: 3 (one included)

Readings Update Interval: every 45 seconds

EL Backlight

Low Battery Indicators

• *for each remote channel and main unit*

CLOCK

Precise Atomic Time

4 Time Zones

12/24 Hour Time Format

Crescendo alarm with 4 minute snooze

REMOTE SENSOR

Remote Temperature

Proposed Operating Range: -20°C to +70°C
(-4°F to 158°F)

Proposed Operating Range: -38.5°C to +70°C
(-38.8°F to 158°F)

Temperature Resolution: 0.1°C (0.2°F)

RF Transmission Frequency: approximately 45 seconds

Low Battery Indicator

Wall-mount or Table Stand

POWER

Main Unit: 2 "AA" size 1.5V batteries (not included)

Remote Sensor: 2 "AA" size 1.5V batteries (not included)

DIMENSIONS

Main Unit (LxHxD): 88.9 x 152 x 23 mm
(3.5 x 5.98 x 0.91 inches)

Remote Sensor(LxHxD): 59.6 x 95.7 x 21.8 mm
(2.35 x 3.77 x 0.86 inches)

The FCC Wants You to Know

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 might cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) reorient or relocate the receiving antenna;
- 2) increase the separation between the equipment and the receiver;
- 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- 4) consult the dealer or an experienced radio/TV technician for additional suggestions.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

Industry Canada Notice

This device complies with RSS-210 of Industry Canada. 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.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of Industry Canada.

Warranty



LIMITED WARRANTY

Who is Providing This Warranty?

- Orbyx Electronics, LLC ("Orbyx"), as the distributor of this Nexxtech™ product (your "Product").

What Does This Warranty Cover?

- This warranty covers defects in materials or workmanship in your Product under normal use and conditions.

What is the Period of Coverage?

- This warranty covers your Product for 12 months from the original purchase date.

Who Is Covered?

- This warranty covers the original consumer purchaser. Coverage terminates if you sell or otherwise transfer your Product.

What Will We Do To Correct Problems?

- We will repair your Product or replace your Product with a new or reconditioned equivalent product, at our option.

How Do You Get Service?

- Call Orbyx TOLL FREE at 1-866-363-3059 for instructions for obtaining warranty service from Orbyx's authorized service providers.
- Or, return your Product directly to the retail store from which you purchased the Product.
- When you obtain service for your Product, you must provide a purchase receipt (or other proof of the original purchase date) and a description of the defect(s).

What Does This Warranty Not Cover?

- This warranty **DOES NOT COVER**:
 - damage due to misuse, abuse, alteration, unauthorized repair, or accident (such as improper electrical current);
 - damage due to "acts of God" (such as lightning) or other contingencies beyond our control;
 - cosmetic damage;
 - externally generated static, signal reception or antenna problems not caused by your Product; or batteries.
- This warranty also **DOES NOT COVER**, and in no case will we be liable for, any incidental damages (such as transportation costs to and from an authorized service provider, or loss of time) or consequential damages (such as costs of repairing or replacing other property which is damaged, including tapes, discs, speakers not included with your Product or other accessories, or external electrical systems) resulting from the use of your Product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- Defacing the serial number, or using your Product for commercial or institutional purposes, voids this warranty.

Are There Other Warranties?

- There are no express warranties other than those expressed herein. Neither the sales personnel nor any other person is authorized to make any other warranties or to extend the duration of any warranties.
- **ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY (AN UNWRITTEN WARRANTY THAT A PRODUCT IS FIT FOR ORDINARY USE), ARE LIMITED TO 90 DAYS.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

How Does State Law Apply?

- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



LIMITED WARRANTY

ORBYX ELECTRONICS WARRANTY

ORBYX Electronics warrants that this product will be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. Within this period, simply take the product and your proof of purchase to any ORBYX Electronics store or dealer and the product will be repaired without charge for parts and labour. ORBYX Electronics reserves the right to charge for transportation. Any product which has been subject to misuse or accidental damage is excluded from this warranty.

This warranty is only applicable to a product purchased through ORBYX Electronics' company owned stores and dealers and to a product that is presented for repair in a country where ORBYX Electronics offers the product for sale. While this warranty does not confer any legal rights other than those set out above, you may have additional statutory rights which will vary under the laws of the various countries, states, province and other governmental entities in which ORBYX Electronics operates. This warranty is subject to all statutory rights you may have in the country of purchase.

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For product support please contact
www.orbyxelectronics.com or 1-866-363-3059



Limited Warranty/Garantie Limitée
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