ACU·RITE®

Wireless Weather Station + COMPANION

If at any time in the future you need to dispose of this product please note that: Waste electrical products should not be disposed together with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY IN ACCORDANCE WITH YOUR LOCAL REGULATIONS

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.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER 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 and 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:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

Do not return product to retail store. For Technical Assistance and product return information, please call Customer Care:

877-221-1252

HOURS: Monday through Friday from 8:00 a.m. to 4:45 pm CST.
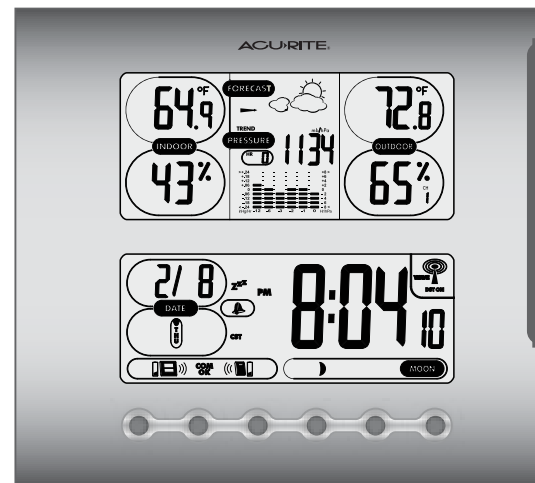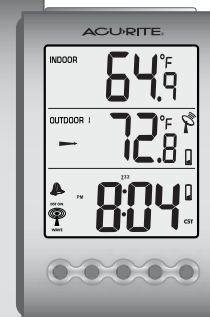

Wireless Weather Station + COMPANION
MODEL # 00605

Main Unit

COMPANION   Wireless Sensor

Thank You! We appreciate you for purchasing the new generation radio-controlled wireless weather station + COMPANION. This instrument set is designed and engineered with state-of-the-art technology and components. It will provide the date, time, barometric pressure, and indoor & outdoor temperatures and humidity levels. A visual representation of the weather forecast is also provided on the main unit.

The wireless sensor sends information about current conditions to the main unit AND to the companion piece. This method of information broadcasting wirelessly to both units allows you to view the same information in two areas of your home. For example, the main unit could be placed in the kitchen and the companion, which also has an alarm clock could be placed in a bedroom.

1 CHECK PACKAGE CONTENTS

(1) Main Unit – 7.25" x 6.5" x 1.25" *
(1) Snap-on base support
(1) Companion - 2.75" x 4" x 1.25"*
(1) Thermo Hygro remote sensor – 2.25" x 3.25" x .75"*
* dimensions approximate
(1) Instruction manual

2 READ

Please read this entire manual carefully before you set up the instrument and begin to use it. In this way you can become familiar with the features of the weather station & companion to get the most benefit from it.

3 INSTALL BATTERIES

Main Unit: Always install batteries into the main unit first. On the back of the unit, remove the battery compartment cover. Insert 3 AA alkaline batteries. Replace the cover.

Companion: On the back of the unit, remove the battery compartment cover. Insert 2 AAA alkaline batteries. Replace the cover.

Wireless Sensor: After batteries have been put into the main unit and companion, remove the back cover of the wireless sensor. Insert 2 AA alkaline (or lithium) batteries.

NOTE: When replacing the batteries for the wireless sensor, remove the batteries from the sensor and clear that sensor's channel on the main unit by pressing and holding the CHANNEL button when the corresponding channel is displayed. Reinstall the batteries into the wireless sensor.

Operating Range of Batteries

| LITHIUM BATTERIES | -22°F (-30°C) | (70°C) 158°F |
| ALKALINE BATTERIES | -4°F (-20°C) | (70°C) 158°F |

Severe cold (below -4° F/-20° C) can cause alkaline batteries to freeze and function improperly. Use lithium batteries in extremely low temperature conditions to ensure continued operation.

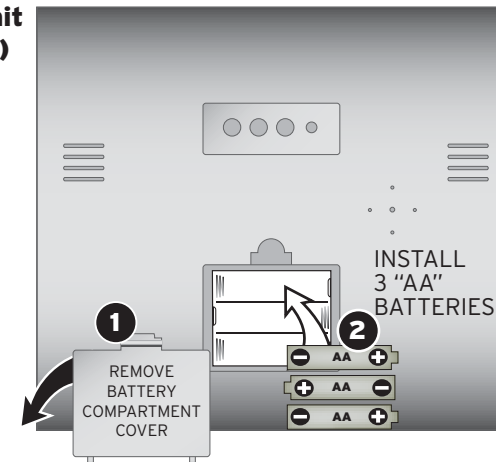## 4 CHOOSE WHERE TO PLACE THE MAIN UNITS and WIRELESS SENSOR

Main Unit/Companion: Choose wall mount or table-top placement.
• Choose a location for each unit that is at least 10 feet away from other electronic devices that may interfere with the wireless signal.
• Wall mounting: Use the mounting slot on the back of each unit to hang on the wall.
• Table-top placement: Snap the base support to the main unit by inserting the support's two barbed prongs into holes on the bottom edge of the main unit. The companion has an integrated fold-out stand for table-top placement.
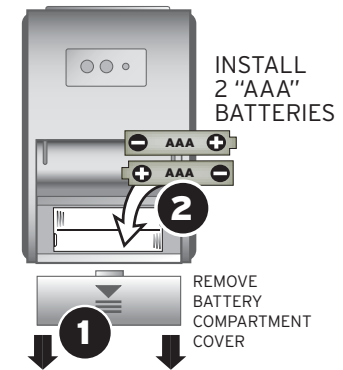
Wireless Sensor: When placing the sensor, consider these things:
• Although the sensor is designed for outdoor use, placement in a protected area will prolong its life.
• Mounting: Use the mounting slot on the back of the unit to hang it from a wall or vertical surface.
• The sensor must be within 100 feet (30 meters) of each of the main units.
• The sensor is resistant to weather and to water. It is NOT WATERPROOF.
• Prolonged exposure to cold weather may cause damage to the LCD panel.
• Wireless sensor must be placed outdoors to observe outdoor temperatures and humidity.

Main Unit (BACK)

INSTALL 3 "AA" BATTERIES

REMOVE BATTERY COMPARTMENT COVER

COMPANION (BACK)

INSTALL 2 "AAA" BATTERIES

REMOVE BATTERY COMPARTMENT COVER

Wireless Sensor (BACK)

REMOVE 4 SCREWS TO OPEN BATTERY COMPARTMENT

INSTALL 2 "AA" BATTERIES

C/F   reset
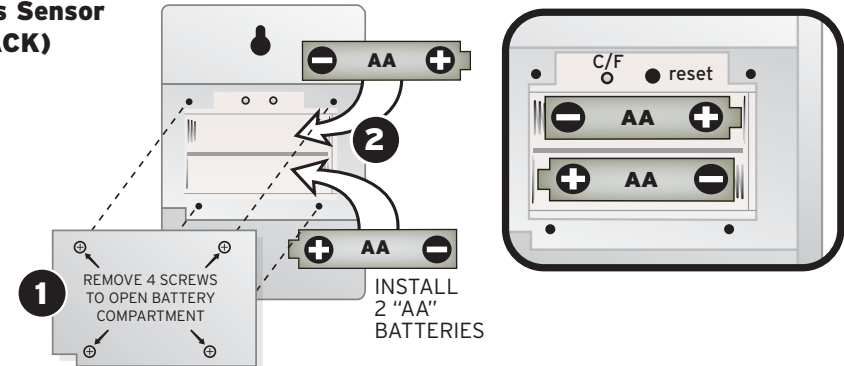
Placement

Wireless sensor should be placed out of direct sunlight and be protected from direct weather elements.

100 feet (30m) maximum wireless distance between main unit/companion and wireless sensor.

Main Unit & Companion should be placed at least 10 feet from other electronic devices (TV's, computers, etc.) and both should be less than 100 feet from the wireless sensor.

Indoor Temperature & Humidity

SEC. 7
Weather Forecast

Outdoor Temperature & Humidity

FORECAST

Trend Indicator
SEC. 7

INDOOR
PRESSURE
TREND
HR

OUTDOOR

Wireless Sensor Channel Number
SEC. 8

Graph Shows Air Pressure History SEC. 7

Barometric Pressure at a given hour

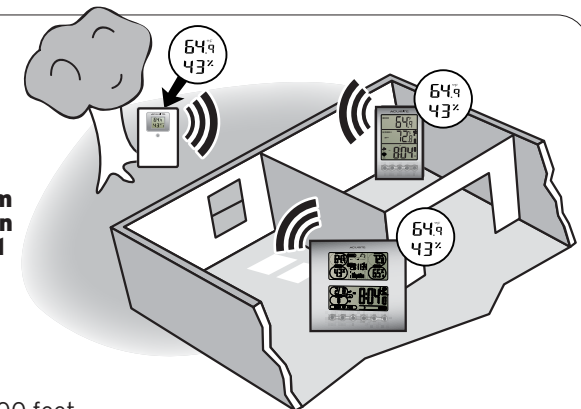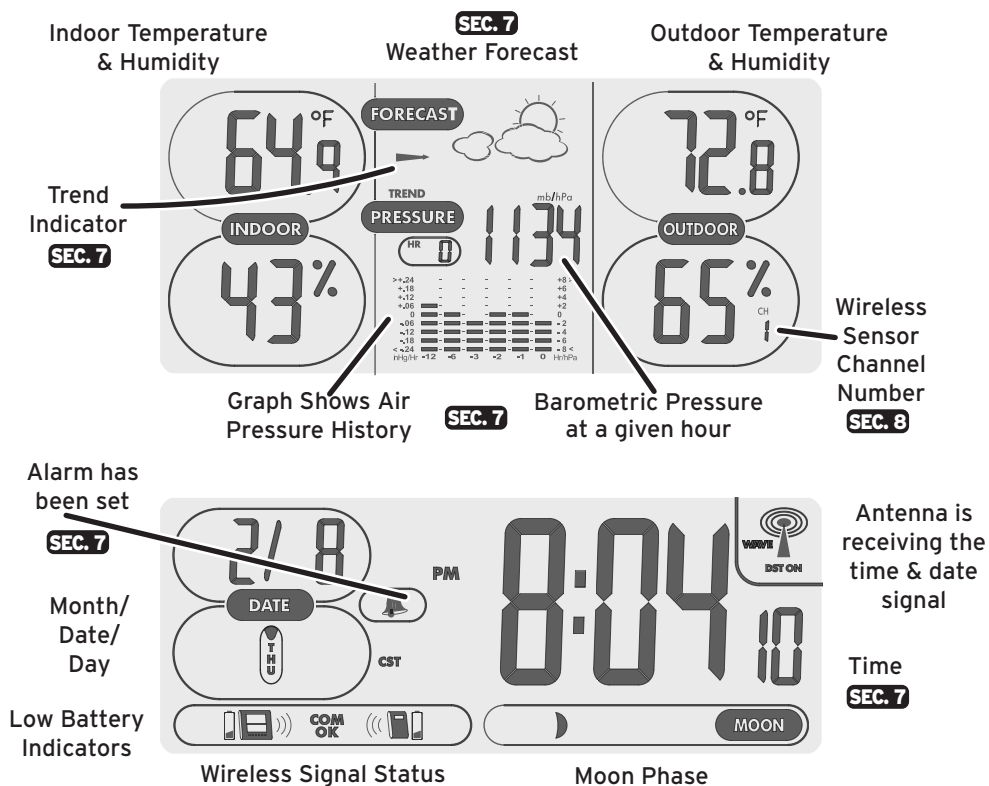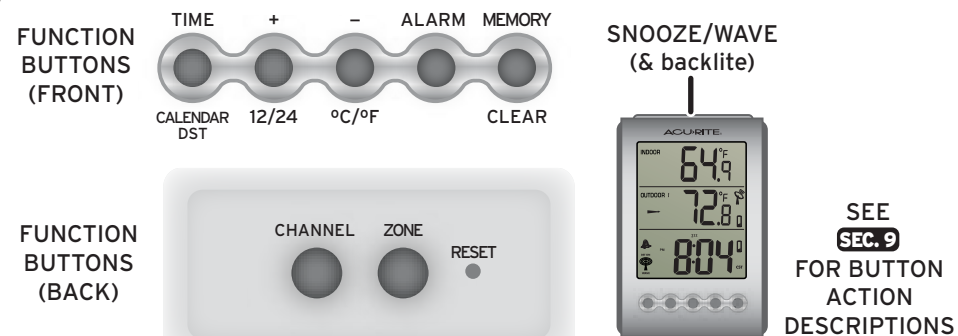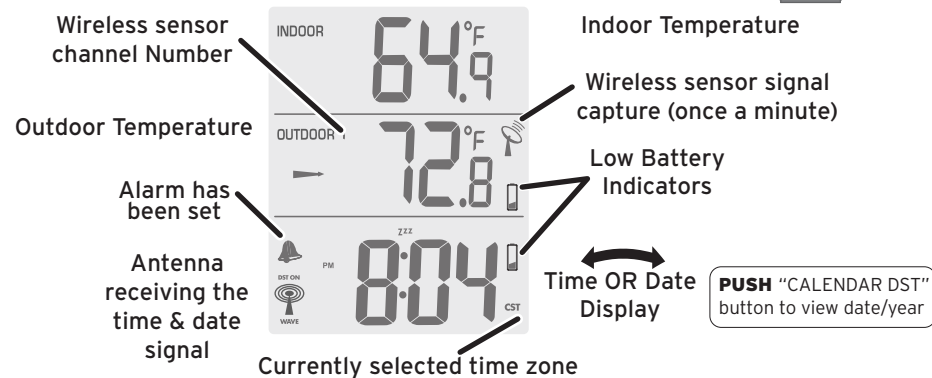Alarm has been set
SEC. 7

DATE

Month/ Date/ Day

Low Battery Indicators

Antenna is receiving the time & date signal

WAVE DST ON

CST

Time
SEC. 7

MOON

Wireless Signal Status

Moon Phase

FUNCTION BUTTONS (FRONT)

TIME + – ALARM MEMORY CHANNEL

12/24 °C/°F CLEAR

FUNCTION BUTTONS (BACK)

ZONE SNOOZE PRESSURE
RESET
hPa/inHg WAVE

SEE
SEC. 9
FOR BUTTON ACTION DESCRIPTIONS

(enlarged)

Wireless sensor channel Number

Indoor Temperature

INDOOR

Outdoor Temperature

OUTDOOR

Wireless sensor signal capture (once a minute)

Low Battery Indicators

Alarm has been set

Antenna receiving the time & date signal

DST ON
PM
WAVE
CST

Time OR Date Display

PUSH "CALENDAR DST" button to view date/year

Currently selected time zone

FUNCTION BUTTONS (FRONT)

TIME + – ALARM MEMORY

CALENDAR DST 12/24 °C/°F CLEAR

SNOOZE/WAVE (& backlite)

FUNCTION BUTTONS (BACK)

CHANNEL ZONE RESET

ACURITE
INDOOR
OUTDOOR

SEE
SEC. 9
FOR BUTTON ACTION DESCRIPTIONS

Radio-controlled Clock : The unit starts synchronizing the clock after the 1st channel of the wireless sensor begins to send its information to the main unit. (This is called registration.) The built-in antenna receives the official time signal from the US Government's National Institute of Standards and Technology. A microchip translates the time signal and adjusts the time display for the correct time, and date.

Manually setting the time and date:
Press and hold the "TIME" button, and the time display will flash on the screen. Using the + and – buttons adjust each section and confirm (and move on) by pressing the "TIME" button. (set order: hours, minutes, month, date, year, daylight saving time)

NOTE: You cannot change any settings manually if the clock is attempting to synchronize. Allow the clock to finish the cycle, and then manual changes can be made if the clock has not automatically acquired the signal and set itself to the correct time.

Time Zone:
Note: Default setting is Pacific Time. If you live outside of the Pacific Time Zone, you will need to set your Time Zone using the following procedure:

Press the "ZONE" button on the back of the main unit to change the time zone settings.

PST = Pacific   MST = Mountain   CST = Central   EST = Eastern

The antenna icon will flash on and off during synchronization. If the icon disappears, this indicates that the radio signal is not available. If you are unable to obtain a signal after a long period of time, try placing the base unit away from sources of interference such as computers, televisions, cordless phone bases, and other electronic items.

Note: The synchronization process can take 24-72 hours. If the signal is still not captured, the "WAVE" (snooze/wave) button may be pushed and held for 5 seconds to begin searching for the time signal again.

Celsius/Fahrenheit:
Press and release the – / ºC/ºF button. The display will change to either Fahrenheit or Celsius.

Trend Indicators:
Arrow indicators beside the upper display outdoor temperature and humidity readings show: **Rising**   **Steady**   **Falling**

The arrow icons will indicate rising, steady or falling if the temperature or humidity change is more than 1 unit (degree/percent) within an hour.

Temperature Memory:
Press the "MEMORY" button to view the **min**imum values (Inside/ Outside Temperature) for 5 seconds. Press the "MEMORY" button again to view the **max**imum memory. The memory will automatically refresh every 24 hours.

SETTING THE ALARM:
　　　1) Hold "ALARM" for 5 seconds.
　　　2) The hour number(s) flash. Press + or - to enter the desired hour. Press "ALARM" to confirm the hour setting.
　　　3) The minute number(s) flash. Press + or - to enter the desired minute. Press "ALARM" to confirm the minute setting.

To view the alarm time, press the "ALARM" button during the normal operating mode. Alarm time will display for fifteen seconds. Then, the current time is displayed.

To Turn the Alarm On and Off: press the "ALARM" button and then the "+" button during the normal operating mode. A bell icon will appear when the alarm is on.

To Turn off the Alarm for 24 hours: To turn the alarm off for 24 hours, press the "ALARM" button when the alarm sounds

Snooze:
 When the alarm sounds, press the "SNOOZE" button to trigger the snooze feature. The alarm is silenced for five minutes.

Backlight:
Press the "SNOOZE/WAVE" button to activate the backlight for 5 seconds for low-light viewing of the on-screen information.

Radio-controlled Clock : The unit starts synchronizing the clock after the 1st channel of the wireless sensor begins to send its information to the main unit. (This is called registration.) The built-in antenna receives the official time signal from the US Government's National Institute of Standards and Technology. A microchip translates the time signal and adjusts the time display for the correct time, and date.

Manually setting the time and date:
Press and hold the "TIME" button, and the year display will flash on the screen. Using the + and – buttons adjust each section and confirm (and move on) by pressing the "TIME" button. (set order: hours, minutes, month, date, year, daylight saving time)

NOTE: You cannot change any settings manually if the clock is attempting to synchro-nize. Allow the clock to finish the cycle (tower icon is no longer animated), and then manual changes can be made to the time and date settings if desired.

Time Zone:
Note: Default setting is Pacific Time. If you live outside of the Pacific Time Zone, you will need to set your Time Zone using the following procedure:

Press the "ZONE" button on the back of the main unit to scroll through the time zone settings.

　　　PST = Pacific   MST = Mountain   CST = Central   EST = Eastern

 The antenna icon will flash on and off during synchronization. If the icon disappears, this indicates that the radio signal is not available. If you are unable to obtain a signal after a long period of time, try placing the base unit away from sources of interference such as computers, televisions, cordless phone bases, and other electronic items.

Note: The synchronization process can take 24-72 hours.

Celsius/Fahrenheit:
Press and release the – (minus) button. The display will change to either Fahrenheit or Celsius.

Barometer Set Up:
The digital barometer will calculate and forecast the weather conditions. Your instrument will not provide a reliable forecast unless your current barometric pressure is entered in.

Adjust the barometric pressure to reflect your current conditions:
NOTE: Please see http://weather.unisys.com/surface/sfc_con_pres.html to help set and adjust the barometric pressure.
1) Press and hold PRESSURE button for 5 seconds
2) Press + , and/or - to adjust the air pressure to the current pressure.
3) Press the PRESSURE button to confirm the setting and exit

Changing the Pressure Scale: To change the scale between mb (milibars) hPA (hectoPascals) and inHg (inches of mercury), push "ZONE" button while in pressure adjust mode.

Moon Phase: ● ☽ ☽ ☽ ○ ☾ ☾ ☾
The moon phase will automatically display based on the calender date. The moonphase will not be displayed correctly unless the date and year are programmed correctly.

MAIN UNIT - OTHER ADJUSTMENTS

View Pressure History: To view air pressure from 0 (current) to the past 12 hours, press the "PRESSURE" button. The hour is displayed in the small box in the pressure portion of the upper display. Each time you press "PRESSURE", the value changes to that of the previous hour.

NOTE: The main unit example Upper Display illustrated in **section 5** shows what the pressure is, the current hour being zero (0). This pressure history is available only after the barometer has operated and kept pressure data for 12 continuous hours.

Barometer History Graph: The bar chart just below the air pressure display, shows the pressure readings (range from +0.24 inHg to -0.24 inHg/ -8 hPa mb to +8 hPa mb) of the current and past 1, 2, 3, 6 and 12 hour periods.

WEATHER FORECASTING
The main unit predicts weather conditions of the next 12 – 24 hours based on the changes in atmospheric pressure. The coverage area is approximately 19-31 miles (30 – 50 km). The weather forecast is based on atmospheric pressure changes and is approximately 70-75% correct. As weather conditions cannot be 100% correctly forecasted, we cannot be responsible for any loss caused by an incorrect forecast.
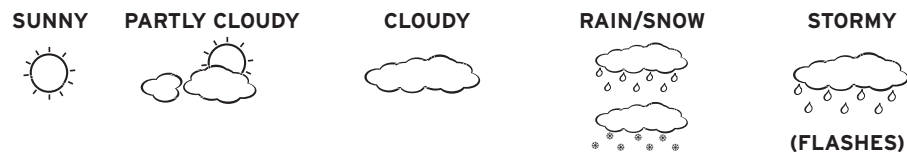
SUNNY	PARTLY CLOUDY	CLOUDY	RAIN/SNOW	STORMY
☼	⛅	☁	🌧	🌧
				(FLASHES)

Trend Indicators:
Arrow indicators beside the upper display outdoor temperature and humidity readings show:

Rising	Steady	Falling
↑	➡	↓

The arrow icons will indicate rising, steady or falling if the temperature or humidity change is more than 1 unit (degree/percent) within an hour.

SETTING THE ALARM:
    1) Hold "ALARM" for 5 seconds.
    2) The hour number(s) and "SET" flash. Press + or - to enter the desired hour.
        Press "ALARM" to confirm the hour setting.
    3) The minute number(s) and "SET" flash. Press + or - to enter the desired minute.
        Press "ALARM" to confirm the minute setting.

To view the set alarm time, press the "ALARM" button during the normal operating mode. Alarm time will display for five seconds. Then, the current time is displayed.

To Turn the Alarm On and Off: press the "ALARM" button and then the "+" button during the normal operating mode. An alarm icon will appear when the alarm is on.

To Turn off the Alarm for 24 hours: To turn the alarm off for 24 hours, press the "ALARM" button when the alarm sounds

Snooze:
 When the alarm sounds, press the "SNOOZE" button to trigger the snooze feature. The alarm is silenced for five minutes.

MEMORY:
Press the "MEMORY" button to view the **min**imum values (Inside/ Outside Temperature and Humidity) for 5 seconds. Press the "MEMORY" button again to view the **max**imum memory.

The memory will automatically refresh every 24 hours.

NOTE: The air pressure memory will not be cleared manually, but instead will be cleared automatically every 12 hours.

8 MULTIPLE WIRELESS SENSORS

The main unit supports up to three wireless sensors. Each additional wireless sensor must be designated a different channel number. Assigning different channel numbers differentiate each sensors temperature and hygrometer readings for the main units' display. This is done automatically by the main unit and companion.

TO ADD A SECOND (or THIRD) WIRELESS SENSOR:
You must wait at least one hour after each sensor signal is acquired by the main unit and the companion before adding an additional sensor. For example; if you wish to add two more sensors- you must activate one (by installing batteries) and wait an hour before activating the second one. In this way, that sensor will be properly designated number "2". Confirm that both the main unit and companion display the recently added sensor by pushing the "CHANNEL" button to cycle through currently designated wireless sensors before adding another sensor.

REFER TO SECTION 3 FOR WIRELESS SENSOR INSTALLATION INSTRUCTIONS
Additional wireless sensors are sold seperately. Call 1-800-556-2548 to order.

9 BUTTON ACTION DESCRIPTIONS

COMPANION
Operation buttons are located on the front and back of the main unit

BUTTON NAME	PRESS & RELEASE	PRESS & HOLD FOR 3 SECONDS
CHANNEL	to view channels 1,2 or 3 (if applicable)	clears the current channel
MEMORY / CLEAR	read maximum & minimum values for temperatures, humidity (both indoor & outdoor)	manually clears the memory for MIN or MAX when viewing records for each
ALARM	view alarm time for 5 seconds	set alarm time
TIME / CALENDAR & DST	view the date	to set clock & calander manually
+	turn alarm on/off OR raise a setting by one unit	fast advance setting mode
–	select ºC or ºF OR lower a setting by one unit	fast reverse in time setting mode & current time zone setting
ZONE	change the time zone	change the pressure measurement display units
ZONE / WAVE (& light)	•silence the alarm for 5 minutes •activates backlight	manually activates the time signal search mode

MAIN UNIT
Operation buttons are located on the front and back of the main unit

BUTTON NAME	PRESS & RELEASE	PRESS & HOLD FOR 3 SECONDS
CHANNEL	to view channels 1,2 or 3 (if applicable)	clears the current channel
MEMORY / CLEAR	read maximum & minimum values for temperatures, humidity (both indoor & outdoor)	manually clears the memory for MIN or MAX when viewing records for each
PRESSURE	view pressure history & confirm settings	adjust current pressure
ALARM	view alarm time for 5 seconds	set alarm time
TIME	view the year	to set clock & calander manually
+	turn alarm on/off OR raise a setting by one unit	fast advance setting mode
–	select ºC or ºF OR lower a setting by one unit	fast reverse in time setting mode & current time zone setting
ZONE / hPa- inHg	change the time zone	change the pressure measurement display units
SNOOZE / WAVE	silence the alarm for 5 minutes	manually activates the time signal search mode

10 PRODUCT SPECIFICATIONS   MODEL# 00605

MEASUREMENT RANGE:

Indoor main unit /companion	:	+32º F to +122º F (0º C to + 50º C)
Outdoor/Indoor humidity	:	20% - 99% RH
Wireless sensor	:	-4º F to +158º F (-20º C to +70º C)
Barometer	:	900 to 1050 mb/hPa
Channel	:	maximum of three wireless sensors
WIreless Transmission	:	up to 30M (100 ft.) open area, RF 434 MHz
Resolution	:	0.1º for temperature, 1% for humidity, 1 hPa mb for pressure
Clock	:	WWVB radio-controlled, quartz back-up
Batteries	:	AA x 3 for main unit; AAA x 2 for COMPANION, AA x 2 (lithium type recommended) for wireless sensor