Instruction Manual
Indoor/Outdoor Thermometer and Hygrometer with Atomic Radio Controlled Clock
Model number 00592W

Thank you for purchasing the new generation radio-controlled wireless weather clock. This unit is designed and engineered with the state-of-art technology and components. This instrument will provide accurate and reliable measurement including temperature and humidity tendency as well as humidity and indoor/outdoor temperatures. Please read this manual carefully to fully explore the features and benefits of the new product.

<u>Name and Functions of Buttons:</u>

	Press Functions	**Hold 3 seconds**
SET	Manual synchronization	enter clock/calendar set
"+"	1 step advance in Set mode, On/off for alarm	rapid advance in the Set mode
-/C/F (zone)	1 step backward in Set mode, Celsuis/Fahenheit	Select Time zone
ALARM	Read alarm time	Enter alarm set
MEMORY	Read maximum/minimum records	
CHANNEL	Select Channel 1, 2, 3	Clear current channel(s)

SNOOZE/LIGHT Press to activate the Snooze function and to illuminate the backlight for 3 seconds

BATTERY INSTALLATION
For the first installation, insert batteries in the main unit first, then the remote sensor.
1. Insert 2 AA alkaline batteries into the main unit.
2. Insert 2 AAA alkaline batteries into the remote sensor.

*Note: Severe cold weather can cause the batteries to freeze and function improperly. Use lithium batteries when operating under extremely low temperature conditions.

SETTING UP THE WIRELESS THERMOMETER:
*   Always insert batteries into the main unit first and then the remote sensor. Your new RF thermometer is built with random security code technology. The main unit will learn the random security code of the remote sensor and will be registered without being interfered with by a neighbor who may be using the same type of sensor under the same channel setting. The base unit can monitor up to 3 remote sensors at a time. (One sensor is included with this item.)
*   Lift off the rear cover of the remote sensor by separating front and back panels at the side seam.
*   Select the channel with the switch on the right hand side. Place batteries in the sensor and press "TX" button to send a signal to the main unit. Select temperature display at this time by pressing the "C/F" button. Replace the back cover on remote sensor.
*   Mode button on the inside of the remote sensor allows you to see the humidity and the temperature. When you press the button once it will show humidity, when pressed again it will show an arrow and that will scroll from temperature and humidity. When pressed again then it will stay on temperature.
*   When replacing batteries for the remote sensor, remember to clear the corresponding channel of the main unit in this way: Select the respective channel by pressing the CHANNEL button then by holding the CHANNEL button for 3 seconds to clear the registration.

*Note: The "TX" and the "C/F" are hidden inside the protective backing to ensure weather resistance of this unit that is intended for outdoors. The remote sensor(s) are not "waterproof" meaning able to submerse, but rather water resistant or weather resistant. Prolonged exposure to cold weather may cause damage to the LCD panel and in addition can drain your batteries. Extreme heat can cause your batteries to drain and more importantly, explode and corrode in the compartment. Battery corrosion will harm the unit. Although these units are intended for outdoor use, placing them in a protected are will preserve the life of the unit.

About the Atomic Clock:
The National Institute of Standard and Technology (NIST) in Fort Collins, Colorado broadcasts the time signal (WWVB at 60kHz radio signal) with an accuracy of one second per every 3,000 years. The signal covers a distance up to 2,000 miles from the source.

Selecting the Ideal Location:
Like a typical AM radio, the atomic clock will not receive the WWVB signal in places surrounded by heavy concrete or metal panels. For best reception, please install the home receiver near a window. The tie signal reception is also greatly affected by electrical or electronic interference. If the home receiver location you selected does not work, change to a location in another part of the room or building.

Radio Controlled (R/C) Time Reception Set Up:
The clock attempts to synchronize with the Atomic time signal automatically right after the first remote sensor is registered. The unit starts synchronizing the clock after registering the remote sensor thermometer reading. The clock will not respond to any manual settings while attempting to receive the Radio Control Time signal. This reception cycle will last from 2 to 5 minutes. The tower icon in the right hand corner of the screen appears fixed when reception is successful. It can take the main unit 24 to 72 hours to receive the atomic time signal. To turn the reception off and to enable manual settings, press the SET button.

Entering the Time Zone:
Press and hold the "-C/F(zone)" button for 3 seconds the letter P will appear where the seconds are, then press and release the "-C/F(zone)" button until the correct letter for your time zone appears. The four time zones are P is Pacific, M is Mountain, C is Central, and E is Eastern. Press the SET button to confirm or leave the setting to confirm and exit automatically.

How to Manually Synchronize your Atomic Clock:
Press the SET button to trigger a manual synchronization. The tower will flash regularly during synchronization. Signal strength level is indicated in this way below:
1. Very Weak or no signal (1 icon)
2. Weak (2 icons)
3. Good (full icon)
4. Icon appears fixed and does not blink (reception successful)
5. Icon does not show (no signal received)

If signal level is weak and time reception is not successful, move the unit away from any source of possible interference and try again in another location. The R/C clock will attempt a daily synchronization at 1:00 AM everyday. If not successful, the R/C clock will search for the time signal every hour. Each R/C reception cycle lasts from 2 to 5 minutes. To avoid interference, the unit will disable the other button functions during Radio Controlled Time reception. This is not a defect. Simply press the SET button to turn Radio Controlled Time reception temporarily off.

To Set Clock Manually:
In case the clock is not able to receive the time signal quickly, you can still enter the time manually.
- Set desired time zone first (see above, Entering Time Zone)

- Hold the SET button for 3 seconds: Press the "+" or "-" to adjust the setting and press SET to confirm the setting sequence. The sequence is: Year/Month/Date/Hour/Minute/12/24hr/DST on/off/Exit
- DST on/off is the Daylight Saving Time function. ON means it is enabled and OFF means it is disabled. Even if we are not currently observing DST and you are a state that observes DST you want to make sure that it is set for ON.

ALARM

Enter the alarm setting mode by pressing and holding the ALARM button for 3 seconds. The hour digit will begin to flash. Set the required hour by pressing the "+" or "-" buttons on the front of the unit. Be sure to pay attention to the proper AM or PM setting to ensure your alarm will sound at the correct time. Press the alarm button again and the minutes will flash. Set the correct time using the "+" or "-" buttons located on the front of the unit. Press the alarm button again to exit the set up and return the display to the current time.

Activate or Stop Alarm

To activate the alarm you want to press and release the "+" button on the front of the unit. To stop the alarm, press the ALARM button to stop the alarm for 24 hours. The alarm can also be silenced by pressing the "+" button on the front of the unit with the bell symbol over it. This will turn off the alarm until you press this button again to reactivate it.

SNOOZE/LIGHT

Press the snooze/light button to enter the SNOOZE mode. The alarm will sound again in 8 minutes. A green backlight will also illuminate for 3 seconds each time this button is pressed.

Min/Max Memory

Press the "MEMORY" button to view the maximum temperature and humidity values for both in indoor and outdoor. Press again to view the minimum values. After 5 seconds the display will return back to the present readings. The Min/Max button will be cleared every night at midnight.

Temperature & Humidity Trends (Outdoor Temperature & Humidity)

If the temperature increases by more then 1 degree or the humidity increases by 3%, the trend arrow will point up showing a rising trend. If the temperature change is less than 1 degree or the humidity changes less than 3% the trend arrow will be level showing a steady reading. If the temperature drops more than 1 degree or the humidity drops 3% the trend arrow will point down showing an falling trend. Trend icons update every hour.

Moon Phase

The unit will display the current moon phase according to the time and calendar. All phases will flash once in sequence but the current moon phase will remain displayed for 5 seconds. This feature requires no adjustment on the user end.

Low Battery Indication

Low battery indication is available for the home unit itself and all of the 3 remote channels. This indication will only appear if batteries are low. Replace the batteries and follow the setup procedure as mentioned in the instructions manual.

Specifications

Range of temperature measurement:

Indoor unit:	32F to 122F (0C to 50C)
Remote sensor:	-4F to 158F (-20C to 70C)
Humidity:	20% to 99%
Transmission:	up to 100ft, in an open area at a frequency of 433MHZ
Channel:	maximum of 3 channels
Resolution:	0.1 degree for temperature, 1% for humidity
Clock:	WWVB Radio-Controlled, Quartz back-up

Battery life: 1 year using fresh alkaline batteries

<u>Technical Support</u>
If you have any questions regarding the set-up of the unit please call toll free 1-877-221-1252. Office hours are Monday thru Friday from 8am to 445pm CST.

<u>Limited Warranty</u>
Should this product from the Chaney Instrument Company prove to be defective in material or workmanship within one year of original purchase it will be repaired or replaced. This warranty does not cover damage in shipment or failure caused by tampering, carelessness, or abuse.