Instruction Manual

Owner's Manual 00593W

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 in/ outdoor temperatures. Please read this manual carefully to fully explore the features and benefits of the new product.

Name and Functions of Buttons:

	Press Functions	Hold 3 seconds
CHANNEL	Select Channel 1, 2, 3	Delete current channel
PRESSURE	View Pressure History for the past hr 0 to –12 hours	
SET/ RCC	Trigger R/C synchronization	Enter clock & calendar setting
"+"	1 step forward Alarm 1, 2 on/off	Fast advance
"-"	1 step backward	Fast backward, C/ F Select Time zone
ALARM	Read Alarm 1 Read alarm time 5 sec at normal mode	Alarm time setting
MEMORY	Read maximum/ minimum temperatures, humidity & air pressure – (reads both indoor/outdoor temperatures & humidity)	
"P+"	Step advance for pressure	
"P-"	Step backward for pressure	Select hPa/ inHg
SNOOZE	Trigger snooze alarm	

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 AA alkaline batteries into the remote sensor.

SETTING UP THE WIRELESS THERMOMETER:

- Always insert batteries into the home unit first and then the remote sensor. Your new RF Thermometer is built with random security code technology. The home 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.

- 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 the humidity when pressed again it will show an arrow and that will scroll from temperature and humidity.   When pressed again than it will stay on temperature.

- When replacing batteries for the remote sensor, remember to clear the corresponding channel of the home 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 the outdoors.   The remote sensors 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 area will preserve the life of the unit.

Celcius/Fahrenheit SELECTION on Main Unit and Remote Sensor

Press "– " to select C/ F. For remote sensor, press the "C/F" button inside the battery compartment to select C or F.

How to Change the Time Zone

Press and hold the "-" button for 3 seconds the letter P will appear where the seconds are than press and release the "-" 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 Time zone.   Press the SET button to confirm or leave the setting to confirm and exit automatically.

RADIO-CONTROLLED CLOCK

The unit will start synchronizing the clock after the 1st channel of the RF thermometer is registered. Press set button for force synchronization. The antenna icon will appear during synchronization, if the icon disappears afterwards this is indicating that the radio time signal is not available at present moment. If you are unable to obtain a signal after a small period of time, place the unit away from source of interference such as mobile phones, appliances etc. The radio-controlled clock will have a daily synchronization at 01:00 everyday. Each reception cycle is a minimum of 2.5 minutes and a maximum 5 minutes.

MOON PHASE

The moon phase will be displayed automatically according to current calendar.   The moon phase is shown by the scrolling of the moon icon from left to right.   The moon icon will stop at the existing moon for 5 seconds and than resume scrolling.

SETTING UP THE BAROMETER

When the power is up, the pressure section will display 1013 for 60 seconds. Press P+, P- to adjust the air pressure according the current sea level pressure value (please see **http://weather.unisys.com/surface/sfc_con_pres.html** in order to help set and adjust your sea level measurements).   To change the scale between mb and inHg, hold P- for 3 seconds. To adjust the temperature and humidity based on sea level, hold the PRESSURE key for 3 seconds, press P+, P- to adjust, press PRESSURE to confirm. There is no need to enter the existing weather into the unit as the digital barometer will calculate and forecast the weather conditions based on the air pressure data.
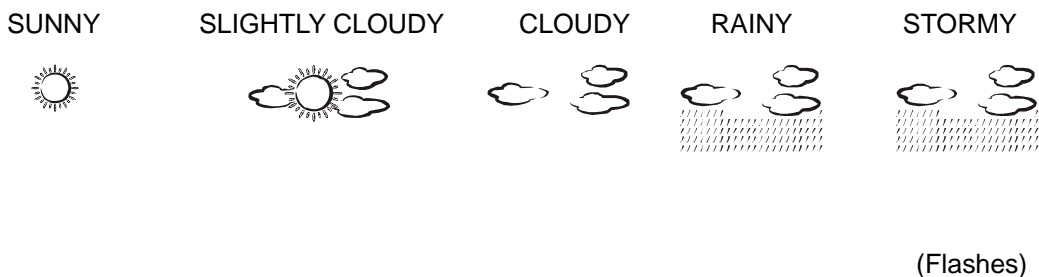
Quick guide to help you adjust the air pressure according to sea level:

1. Hold "PRESSURE" key 3 seconds
2. Press "P+", "P -" to adjust the air pressure according to the current sea level pressure
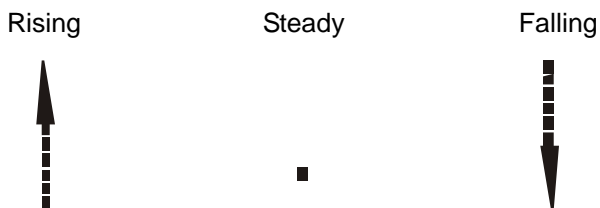3. Press "PRESSURE" to confirm

To view air pressure for the past 12 hours, please press the PRESSURE button each time to view the pressure history for each hour. The corresponding pressure history values can only be available after the barometer operated and recorded the pressure data in the past 12 hours. The spectrum bar chart indicates the pressure changes (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.

WEATHER FORECAST

The unit predicts weather condition of the next 12 – 24 hours based on the change of atmospheric pressure.   The coverage area is around 30 – 50 km. The weather forecast is based on atmospheric pressure change and is about 70-75% correct.   As weather conditions cannot be 100% correctly forecasted, we cannot be responsible for any loss caused by an incorrect forecast.

SUNNY	SLIGHTLY CLOUDY	CLOUDY	RAINY	STORMY

(Flashes)

Outdoor Temperature and Humidity Trend Indicators:

Rising   Steady   Falling

CLOCK & CALENDAR SETTING

Hold "SET "button for 3 seconds to enter clock set. Using " + , - " to adjust and " SET " to confirm, the following values can be set in sequence: Year > Month > Date > Hr > Min > 12/ 24 > DST > confirm & exit.

DST On = Daylight Saving Time enabled.   DST Off = Daylight Saving Time disabled.   The clock will adjust to daylight saving time automatically when DST is enabled,

ALARM SETTING

Hold "ALARM" for 3 seconds.   Press "+, - " to enter the desired Hr/ Min values and press "ALARM" to confirm setting.

To view alarm time press "ALARM" button in the normal mode.   Alarm time will display for 5 seconds and resume to normal clock thereafter.

To turn Alarm on and off – re-press the "+ "button at normal mode.

SNOOZE

Press SNOOZE to trigger snooze alarm. **To stop alarm for one day, press "ALARM" key when alarm sounds.**

MIN/ MAX MEMORY

Press the"MEMORY" key to view the maximum values (In/ Out Temp and Humidity, Air Pressure) for 5 seconds. Press the key button again to view the minimum memory.   To clear the memory record, hold CHANNEL button down while the respective values are displaying on screen. The Air Pressure and Indoor Temperature and Humidity record will not be cleared manually, but instead will be cleared automatically every 12 hours.

Temperature & Humidity Trend Indicator: The icons will indicate Rising, Steady, Falling if the temperature or humidity change is more than 1 degree within an hour.

LOW BATTERY INDICATION

Low battery indication is available for the home unit itself and all of the 3 remote channels.

Replace the batteries and follow the setup procedure as mentioned in this instruction manual.

BATTERY DISPOSAL

Replace only with the same or equivalent type recommended by the manufacturer.

Please disposal of old, defective batteries in an environmentally friendly manner in accordance with the relevant legislation.

SPECIFICATIONS

Range of temperature measurement:

Indoor unit   :   0 C to + 50 C (+32 F to +122 F)

Indoor Humidity :   20% - 99% RH

Remote sensor :   -20 C to +70 C (-4 F to +1 58 F)

Barometer   :   900 to 1050 mb/hPa

Channel   :   max. 3 remote sensors

Transmission	:	up to 30M (100 ft.) open area, RF434 MHz
Resolution	:	0.1 degree for temperature, 1% for humidity, 1 hPa mb for pressure
Clock	:	WWVB Radio-Controlled, Quartz back-up
Batteries	:	AA x 2 Alkaline pcs for main unit, AAA x 2 Alkaline pcs for remote sensor

ACU·RITE®

593IN3

CHANEY INSTRUMENT CO.
LAKE GENEVA, WISCONSIN 53147

www.chaneyinstrument.com

Toll Free Technical Support Line 1-877-221-1252 Office hours: Monday thru Friday 8am to 445pm CST