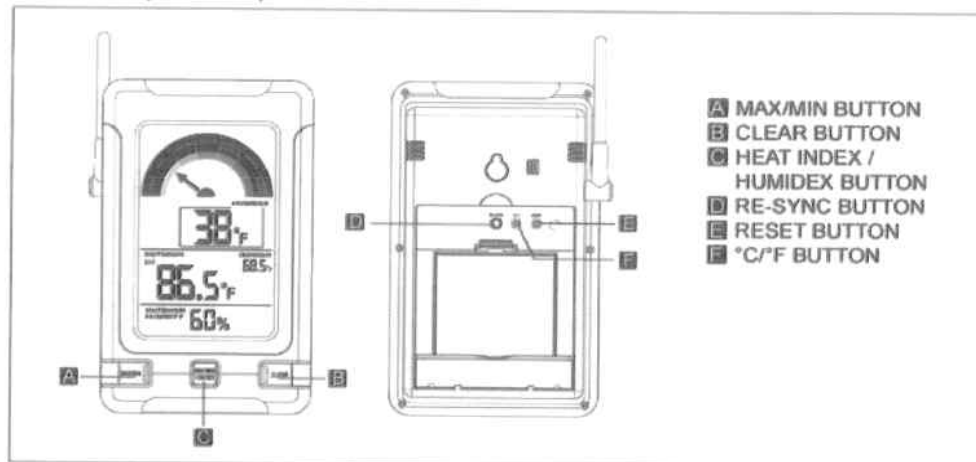


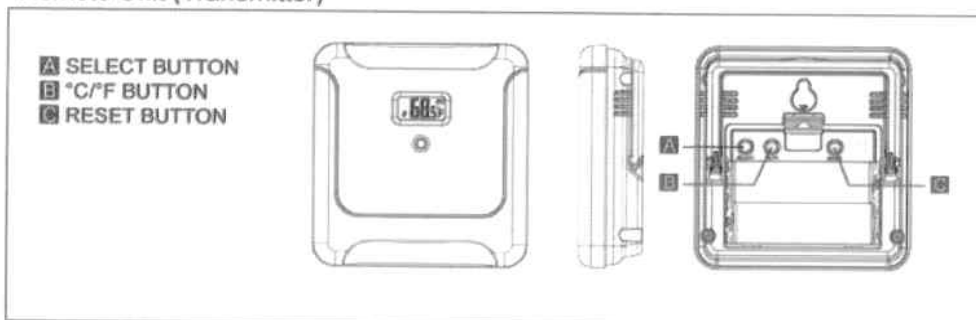
# INSTRUCTION MANUAL

## Locations of Control

### Main Unit (Receiver)



### Remote Unit (Transmitter)



• The configuration of your product may differ somewhat from that shown in the illustration.  
 • "AA" or "AAA" size battery. This product may use more than one piece of battery. Please refer to the engraved battery marks inside the battery compartment for the correct battery type.

## Feature

- Indoor temperature and outdoor temperature.
- Outdoor Humidity.
- Centigrade or Fahrenheit readout.
- Heat index indicator with readout.
- Humidex indicator with readout.
- Indoor temperature measurement range from -4°F ~ 158°F ( -20°C ~ +70°C ).
- Outdoor temperature measurement range from -58°F ~ 158°F ( -50°C ~ 70°C ).
- Outdoor humidity measurement range from 10% ~ 90%.
- Temperature resolution 0.2°F ( 0.1°C ).
- Outdoor Humidity resolution 1%.
- Clock operation temperature from 32°F ~ 122°F ( 0°C ~ 50°C ).

## Before You Begin

To ensure proper functioning of the wireless thermometer, please follow this set up procedure.

- Insert batteries for the main unit ( Refer to section of Battery Installation ).
- Place the main unit as close as possible next to the outdoor unit and insert batteries for the outdoor unit.
- Position the outdoor unit and main unit within effective transmission range, which in usual circumstances is 100 to 150 feet.

Note that the effective range is affected by the building materials and where the main and outdoor unit are positioned, try various setup for the best results.

## Battery Installation

### Battery Installation of the Main Unit

- Open the battery door.
- Remove whole set of old batteries
- Load full set ( 2pcs AA size battery ) of new batteries in polarity ( + ) and ( - ) as indicated.
- Close the battery door.
- Press RESET button once.

### Battery Installation of the Outdoor Unit

- Open the battery door
- Remove whole set of old batteries
- Load full set ( 2pcs AA size battery ) of new batteries in polarity ( + ) and ( - ) as indicated
- Close the battery door
- Press RESET button once

Warning : Do not mix old and new batteries  
Do not mix alkaline, standard ( carbon-zinc ) or rechargeable ( nickel cadmium ) batteries.

Do not touch any other button or setting on your main unit. It will automatically receive the outdoor temperature and time signal after batteries inserted.

### Getting Started

Upon power up of the outdoor unit ( or pressing the RESET button ), the temperature RF signal is immediately sent to the main unit. The main unit attempts to search the RF temperature signal for 5 minutes after power up ( or pressing the RESET button ).

If the RF signal is received within the first 5 minutes after power up of the main unit, the temperature will show on the outdoor temperature display, otherwise it will show blank --.°F.

After the outdoor unit temperature is shown on the outdoor temperature display, the synchronization of main unit and remote unit is established. Place the outdoor unit outside in a shaded, dry area to protect it as if under an umbrella.

If the RF temperature signal is not received within the first 5 minutes, press the RE-SYNC button on the main unit. The main unit will attempt outdoor temperature for another 6 minutes.

### Check INDOOR / OUTDOOR Temperature and OUTDOOR Humidity

The indoor temperature is displayed on the INDOOR temperature field and the outdoor temperature will be shown on the OUTDOOR temperature field.

The outdoor humidity is display on the OUTDOOR humidity field.

### Maximum and Minimum of Temperature and Humidity

The maximum temperature of indoor and outdoor and outdoor humidity will be shown on corresponding field when MAX/MIN button pressed, the MAX icon will be shown.

Press again the button will make the unit show the minimum temperature of indoor and outdoor and outdoor humidity, the MIN icon will be shown.

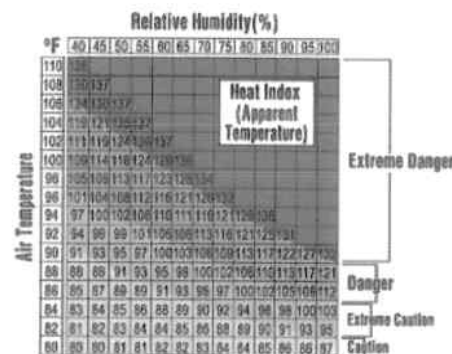
To clear the memory, press CLEAR button when the maximum or minimum temperature records are shown.

### Heat Index

The unit will show the Heat Index indicator with reading after power up with the outdoor temperature and outdoor humidity.

There are seven step ( 3 for normal and 4 for warning ), the heat index is determined by temperature and humidity. In this unit, Heat Index is defined by the following table as shown below:

Heat Index	Heat Index Value	Temperature Level	Remark
Extreme Danger	130°F or higher		Heat stroke or sunstroke highly likely
Danger	105°F ~ 129°F		Sunstroke, muscle cramps and / or heat exhaustion likely
Extreme Caution	90°F ~ 104°F		Sunstroke, muscle cramps, and / or heat exhaustion possible
Caution	80°F ~ 89°F		Fatigue possible
Comfort		70°F ~ 79°F	
Cool		50°F ~ 69°F	
Cold		Below 49°F	



### Humidex

The Humidex value will be shown if the HEAT INDEX / HUMIDEX button pressed as well as the HUMIDEX icon.

Humidex	Heat Index Value	Remark
Danger	46°C and over	Dangerous, probable heat stroke
Extreme Caution	40°C ~ 45°C	Great discomfort, avoid exertion
Caution	30°C ~ 39°C	Some discomfort
Comfort	20°C ~ 29°C	No discomfort




T (C)	RH (%)																
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90		
21	21	21	21	21	21	22	22	23	24	24	25	26	26	27	28		
22	22	22	22	22	22	23	23	24	24	25	26	27	27	28	29	30	
23	23	23	23	23	24	24	25	26	27	27	28	29	30	31	31		
24	24	24	24	24	25	26	27	27	28	29	30	31	32	33	33		
25	25	25	25	26	26	27	28	29	30	31	32	33	33	34	35		
26	26	26	26	27	28	29	30	31	32	33	34	35	36	37	37		
27	27	27	27	28	29	30	31	32	33	34	35	36	37	38	39		
28	28	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
29	29	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
30	30	30	31	32	33	34	35	36	37	38	40	41	42	43	44	45	
31	31	32	33	34	36	37	38	39	40	42	43	44	45	46	48		
32	32	33	34	36	37	38	40	41	42	43	45	46	47	49	50		
33	33	34	36	37	39	40	41	43	44	45	47	48	50	51	52		
34	34	36	37	39	41	42	43	45	46	47	49	50	52	53	55		
35	36	37	39	40	42	43	45	46	48	50	51	53	54	56	57		
36	37	39	40	42	43	45	47	48	50	52	53	55	57	58	60		
37	38	40	42	44	45	47	49	50	52	54	56	57	59	61	63		
38	40	42	43	45	47	49	51	52	54	56	58	60	62	63	65		
39	41	43	45	47	49	51	53	55	57	59	60	62	64	66	68		
40	43	45	47	49	51	53	54	57	59	61	63	65	67	69	71		
41	44	46	48	50	53	54	57	59	61	63	65	68	70	72	74		
42	45	48	50	52	54	57	59	61	64	66	68	70	73	75	77		
43	47	49	52	54	56	59	61	64	66	68	71	73	75	78	80		

### Display Unit

The default unit for temperature is °F, press °C/°F button will toggle the display unit of temperature between °C and °F.

### Receiver Stage Indicator

The RF signal indicator in the base unit outdoor temperature window will show the following:

	NO SIGNAL DETECTION
	SIGNAL DETECTION
	SUCCESSFUL RECEPTION

### Losing Synchronization of the wireless thermometer

If the base unit displayed a proper outdoor temperature in the past but now displays blank "---", the outdoor unit and the main unit may have lost synchronization. If this occurs, press the RE-SYNC button of the main unit. The main unit will attempt outdoor temperature reception for another 6 minutes and reinitiate synchronization with the outdoor unit. If the outdoor temperature cannot be received, check:

1. The distance of the main unit or outdoor unit should be at least 3-4 feet away from any interfering sources such as computer monitors or TV sets.
2. Avoid placing the main unit onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speaker operating on the same signal frequency ( 433MHz ) may prevent correct signal transmission and reception.
4. Neighbors using electrical devices operation on the 433MHz signal frequency can also cause interference.

Note: When the 433MHz signals is received correctly, do not re-open the battery cover of either the outdoor unit or the main unit, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset both unit otherwise transmission problems may occur.

The maximum transmission range is 150 feet from the outdoor unit to the main unit ( in open space ). However, this depends on the surrounding environment and interference levels. The temperature signal travels in a straight line from the outdoor unit to the clock. The signal will not curve around blocking object. If no reception is possible despite the observation of these factors, all unit have to be reset.

### Interference

Signals from other household devices, such as entry controls, door bells and home security systems, may temporarily interfere with the units and cause reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature reading will resume once the interference has stopped.

### Trouble Shooting / FAQ ( Frequent Ask Question )

There is no outdoor temperature shown on the unit?

A : Press the RE-SYNC button on the main unit and the outdoor temperature will shown within minutes. If no temperature is shown after 6 minutes of RE-SYNC button pressed, the outdoor unit is either too far away of there is some interference between the outdoor and main unit. Bring the outdoor unit to the main unit and re-synchronizes. Then move the outdoor unit to a new location closer and in direct line with the main unit.

The outdoor temperature is reading 105°F when the temperature is in the 60°F

A : The outdoor unit is in direct sunlight. Move it to a shaded protected area.

#### Care of Your Clock

- Avoid exposing your clock to extreme temperatures, water or severe shock.
- Avoid contact with any corrosive materials such as perfume, alcohol or cleaning agents.
- Do not subject the clock to excessive force, shock, dust, temperature or humidity. Any of these conditions may shorten the life of the clock.
- Do not tamper with any of the internal components of this clock. This will invalidate the warranty and may cause damage.

#### Correct Usage of the Batteries

- Use 4 new AA batteries
- Do not mix standard and rechargeable batteries
- Do not mix new and old batteries
- When the low battery mark "8" appears on the display, replace all batteries with new ones, when the low battery mark "8" appears on the OUTDOOR temperature field, replace all batteries of outdoor unit with new ones.

#### Specification

##### Temperature Operation Range

Receiver	:	0°C to +50°C
		32°F to 122°F
Transmitter	:	-20°C to +60°C
		-4°F to 140°F

Receiver	:	every 32 seconds
Transmitter	:	every 16 seconds

##### Temperature Checking Interval

Receiver	:	every 32 seconds
Transmitter	:	every 16 seconds

Transmission Distance: maximum 150 feet in open field, depending upon surrounding structures, mounting location and possible interfering sources.

##### Power Source ( Alkaline batteries recommended )

Receiver	:	2 "AA" batteries, 1.5V batteries
Transmitter	:	2 "AA" batteries, 1.5V batteries
Battery life	:	about 12 months

##### Dimension ( L x W x H )

Receiver	:	103 x 35.9 x 170 mm
Transmitter	:	75 x 22.5 x 82 mm

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.

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 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 the 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.



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