



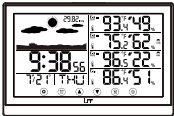
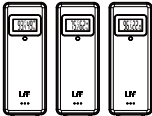

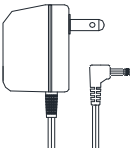
# WIRELESS WEATHER STATION

*Ref.: LWS125*



**-USER MANUAL-**

## PACKAGE LIST

ITEM NO	PART NAME	FIGURE	QTY
1	WEATHER STATION		1
2	OUTDOOR SENSOR		3
3	USER MANUAL		1
4	AC-AC ADAPTOR (Output : 5V AC, 0.15A)		1

## IMPORTANT SAFETY INSTRUCTIONS

Please read this user manual carefully before you use this product.



The lighting flash and arrow head within the triangle is warning sign alerting you of dangerous voltage inside the product

### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICIABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

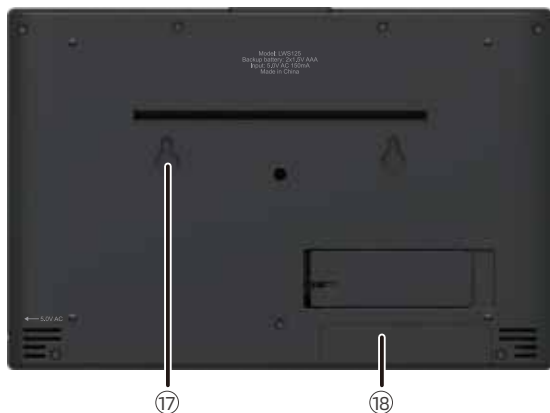
- Please do not expose the unit in the raining or moist environment to avoid fire hazard or electric shock.
- On the machine should not receive the water drop or the water splashes, on the machine could not lay object filled with liquid, like vase.









**THE ADAPTOR MUST REMAIN EASILY ACCESSIBLE IN ORDER TO BE ABLE TO DISCONNECT THE DEVICE IN CASE OF EMERGENCY.**

### **Note:**


Please use new alkaline battery for both sensors and weather station.

# 1 WEATHER STATION UNIT



- ①  **zz** Light/Snooze touch buttons on the top (for adjust the backlight)
- ② Atmospheric pressure and atmospheric pressure trend animation
- ③ Weather forecast display
- ④ Current time display
- ⑤ Month & Date
- ⑥  Set button
- ⑦  Alarm button
- ⑧ Weekday
- ⑨  Up/ button
- ⑩  Down/°C/°F/RCC button
- ⑪  Max/Min button
- ⑫  Channel button
- ⑬ Indoor temperature & humidity display
- ⑭ Outdoor temperature & humidity display for channel 3
- ⑮ Outdoor temperature & humidity display for channel 2
- ⑯ Outdoor temperature & humidity display for channel 1
- ⑰ Hanging slots
- ⑱ Battery compartment for 2 x AAA, 1.5 V batteries

## **2 MAIN FEATURES**

- 7 functional touch buttons: SET, ALARM, UP/, DOWN/°C/°F/RCC, MAX/MIN, CHANNEL, LIGHT and SNOOZE.
- Self setting accurate atomic time function.
- Time display: hour, minute, second.
- Calendar display: month/day with weekday.
- 7 time zones: AST, EST, CST, MST, PST, AKT, HST.
- 2 alarms with snooze functions.
- Indoor & Outdoor temperature display (°C/°F) & humidity.
- Comfort level.
- Barometric pressure reading. (hPa mB, inHg)
- Max/Min records for indoor & outdoor temperature and humidity.
- Weather forecasting.
- Low battery indication for both weather station and sensor.
- 3-level brightness of backlight.

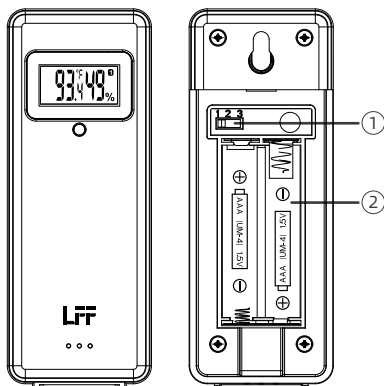
## 3 OUTDOOR TEMPERATURE & HUMIDITY SENSOR STATION

### 3.1 MAIN FEATURES

- Temperature & Humidity measurement.
- Low Battery Indication.

### 3.2 TX BUTTONS ON THE BACK

- ① RF Channel Selection.
- ② Battery Compartment for 2 x AAA, 1.5V batteries.




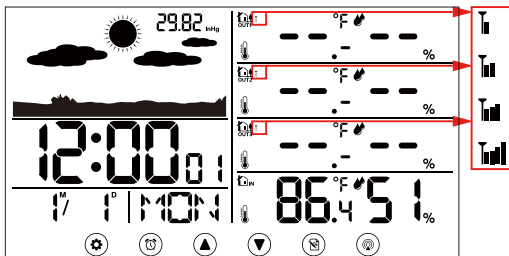
## 4 FIRST TIME TO USE

### 4.1 PAIR THE OUTDOOR REMOTE SENSORS

First of all, it needs to do the pairing between outdoor remote sensors and weather station. Please follow below procedure to pair the sensors.

- 1). Plug the included AC-AC adaptor into the weather station. (optional) insert 2 new "AAA" alkaline batteries for backup.

The screen is turned on. It starts to search sensors and register the received sensors. During RF pairing, the signal strength icon  will animate until the sensors signal is received or for 5 minutes if no signal available.

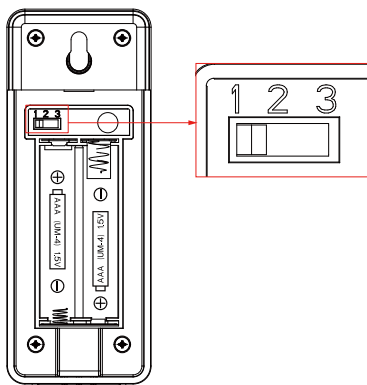


**Note:** If no sensors is paired, you can pair the sensors again manually by pressing and holding the ⑫ [Ⓢ CHANNEL] key over 2 seconds. Please refer to **"14 SEARCH FOR OUTDOOR SENSORS"** .

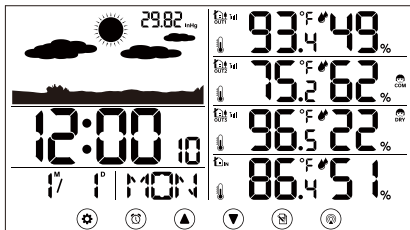
2). Slide the switch to CH1/CH2/CH3 of the outdoor sensors correspondingly and insert the batteries.


**Note:** It needs different channels with 3 sensors in order to weather station pairing properly.

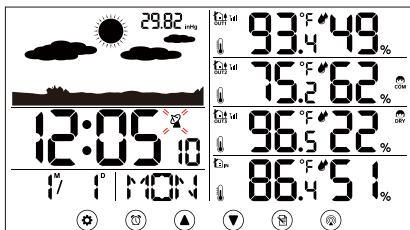
3). The wireless remote sensors will transmit the signal and LED will flash during transmission.




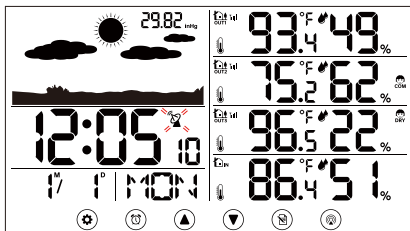
- 4). Keep the outdoor sensors 5-10 feet from the weather station.
- 5). When the RF connection is established, the temperature and humidity readings will appear on the station.



- 6). After 5 minutes sensors pairing time, the weather station will automatically receive atomic clock signal, the tower icon  will be flashing.

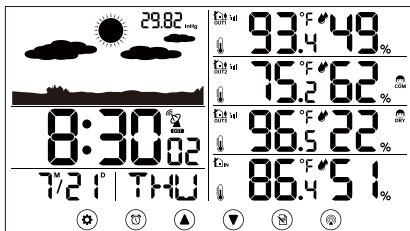


- 7). When the weather station detects the atomic clock signal, the signal strength indication  will be indicated.






- 8). Put the weather station away from interference, such as electronic devices (TV, computer, microwave, radio, etc.)
- 9). When the atomic clock signal is received successfully, the time and date will be updated.



- 10). Allow the outdoor sensors and weather to sit together for 15 minutes to establish a strong connection.
- 11). Do not press button for 15 minutes.
- 12). After 15 minutes, place the sensors in a shaded outdoor location.

## 5 ATOMIC CLOCK RECEPTION

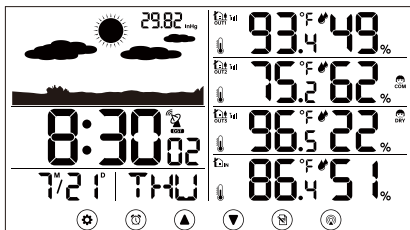
- The weather station automatically begins search WWVB signal and update the time every day at 1:00am, 2:00am, 3:00am, 4:00am, 5:00am.
- The Atomic Time tower icon  will flash while searching and will be solid when it has connected.

### 5.1 MANUAL RCC RECEPTION

You can receive the atomic clock signal manually. In Normal time display, press and hold the **10** [**▼ Down/°C/°F/RCC**] over 2 seconds to receive the atomic clock signal manually.

The tower icon  is flashing and will start atomic clock reception.

When the atomic clock signal is received successfully, the time and date will be updated.



Normal time display

During atomic clock reception, press and hold ⑩ [▼ Down/°C/°F/RCC] key over 2 seconds to exit atomic clock reception.

During the RCC receive mode, only the ① [☀️ Zz Light/Snooze] and ⑩ [▼ Down/°C/°F/RCC] buttons have a function, other buttons are not functional. If you want to carry out other functions of operation, please press and hold ⑩ [▼ Down/°C/°F/RCC] button over 2 seconds to exit the RCC receiving mode.

For information about WWVB, visit  
[www.nist.gov/pml/div688/grp40/wwvb.cfm](http://www.nist.gov/pml/div688/grp40/wwvb.cfm)

## 6 TIME SETTING

In Normal time display, press and hold ⑥ [⚙️ SET] over 2 seconds to enter the time setting mode, RCC ON/OFF will be flashing.

Press ⑨ [▲ Up/👆] and ⑩ [▼ Down/°C/°F/RCC] to adjust the value. Hold ⑨ [▲ Up/👆] and ⑩ [▼ Down/°C/°F/RCC] to adjust the value quickly.

Press ⑥ [⚙️ SET] to confirm and move to the next item.

## 7 SETTING ORDER

- |                        |                              |                       |
|------------------------|------------------------------|-----------------------|
| 1. RCC On/Off          | 2. 12/24 Hour Format         | 3. Time Zone          |
| 4. DST On/Off          | 5. Hour                      | 6. Minute             |
| 7. Date Format         | 8. Year                      | 9. Month              |
| 10. Date               | 11. Weather forecast pattern | 12. Air pressure unit |
| 13. Air Pressure value | 14. End of Setting           |                       |

MST, PST, AKT, HAT. Set the Time Zone to your area for the hours to be correct.

- 1.) Press and hold **6** [**⊛ SET**] button 2 seconds entering the settings. RCC ON flashes. Press **9** [**▲ Up/☞**] and **10** [**▼ Down/°C/°F/RCC**] to set RCC on or off. Press **6** [**⊛ SET**] to select 12/24 hour format.

**Note:** If RCC OFF is selected, you will skip Time Zone and DST settings and move hour setting.

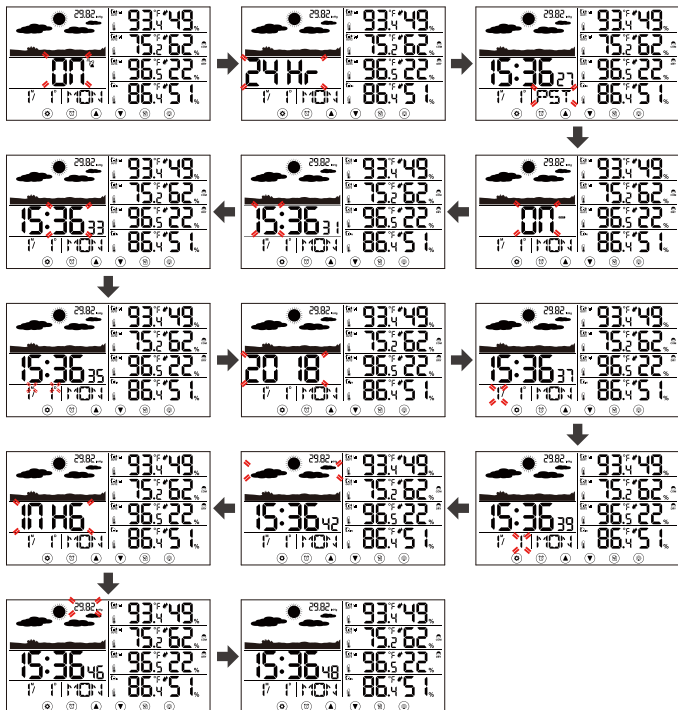
- 2.) When 12/24 hour format flashes, Press **9** [**▲ Up/☞**] and **10** [**▼ Down/°C/°F/RCC**] to set 12/24 hour format. Press **6** [**⊛ SET**] to select Time Zone.
- 3.) When Zone PST flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to set a different time zone (EST=Eastern, CST=Central, MST=Mountain, PST=Pacific, AKT=Alaska, HST=Hawaii, AST=Atlantic). Press **6** [**⊛ SET**] to select DST on/off.

**Note:** For the Time Zone Setting, there are 7 time zones to be selected: AST, EST, CST, MST, PST, AKT, HAT. Set the Time Zone to your area for the hours to be correct.

- 4.) When DST ON flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to select DST on/off. Press **6** [**⊛ SET**] to select Hour.
- 5.) When Hour flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to adjust the Hour. Press **6** [**⊛ SET**] to select Minute.
- 6.) When Minute flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to adjust the Minute. Press **6** [**⊛ SET**] to select Date Format.
- 7.) When Date Format flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to select Date Format. Press **6** [**⊛ SET**] to select Year.
- 8.) When Year flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to adjust the Year. Press **6** [**⊛ SET**] to select Month.
- 9.) When Month flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to adjust the Month. Press **6** [**⊛ SET**] to select Date.
- 10.) When Date flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to adjust the Date. Press **6** [**⊛ SET**] to select Weather forecast pattern.
- 11.) When Weather forecast pattern flashes, press **9** [**▲ Up/☞**] or **10** [**▼ Down/°C/°F/RCC**] button to select current weather pattern. Press **6** [**⊛ SET**] to select Air pressure unit.

- 12.) When Air pressure unit flashes, press **9** [ **▲ Up/☼** ] or  
**10** [ **▼ Down/°C/°F/RCC** ] button to select Air Pressure Unit. Press  
**6** [ **⊛ SET** ] to select Air Pressure value.
- 13.) When Air Pressure value flashes, press **9** [ **▲ Up/☼** ] or  
**10** [ **▼ Down/°C/°F/RCC** ] button to adjust the Air Pressure value. Press  
**6** [ **⊛ SET** ] to save all settings and exit the setting.

**Note:** If there is no valid operation within 20 seconds, it will automatically return to the normal time display mode from the setting mode.



## 8 ALARM CLOCKS

### 8.1 CHECK ALARM TIME

In Normal time display mode, press **(7) [⏰ Alarm]** to toggle switch display Alarm 1 and Alarm 2 time.

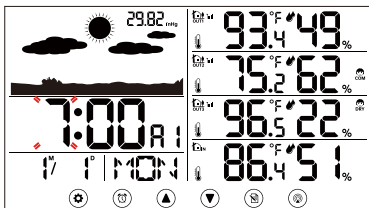
### 8.2 SETTING THE DAILY ALARMS

Press and hold **(7) [⏰ Alarm]** over 2 seconds to enter alarm setting mode.

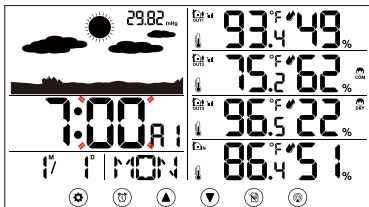
Press and release **(9) [▲ Up/☀]** and **(10) [▼ Down/°C/°F/RCC]** to adjust the values. Hold to adjust quickly.

Press and release **(7) [⏰ Alarm]** to confirm and move to the next item.

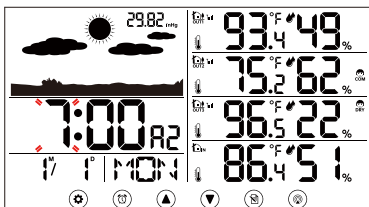
- Press and hold **(7) [⏰ Alarm]** over 2 seconds to enter alarm setting mode.  
Hour of Alarm 1 starts to flash. press **(9) [▲ Up/☀]** or **(10) [▼ Down/°C/°F/RCC]** button to set required alarm hours. Press **(7) [⏰ Alarm]** to select Minute of Alarm 1.



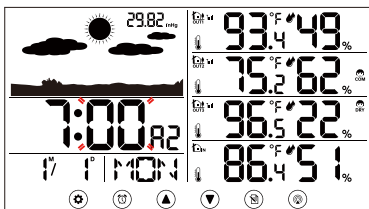
- When Minute of Alarm 1 flashes, press **(9) [▲ Up/☀]** or **(10) [▼ Down/°C/°F/RCC]** button to set required alarm minutes. Press **(7) [⏰ Alarm]** to select Hour of Alarm 2.



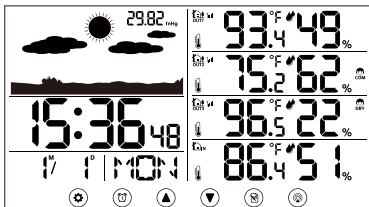
- When Hour of Alarm 2 flashes, press ⑨ [▲ Up/☞] or ⑩ [▼ Down/°C/°F/RCC] button to set required alarm hours. Press ⑦ [⌚ Alarm] to select Minute of Alarm 2.



- When Minute of Alarm 2 flashes, press ⑨ [▲ Up/☞] or ⑩ [▼ Down/°C/°F/RCC] button to set required alarm minutes. Press ⑦ [⌚ Alarm] to select Hour of Alarm 2.



Press ⑦ [⌚ Alarm] to save all settings and exit the setting.



**Note:** If there is no valid operation within 20 seconds, it will automatically return to the normal time display mode from the setting mode.

### **8.3 DEACTIVATE/ACTIVATE ALARM**

- Press the ⑨ [▲ Up/▼] to select the Alarm1 and Alarm 2 ON or OFF.
- If the alarm is on, its corresponding alarm icon (🕒<sub>1</sub> and 🕒<sub>2</sub>) will be shown on the display.
- Alarm 1 icon 🕒<sub>1</sub> is shown on display, it means Alarm 1 is turned on.
- Alarm 2 icon 🕒<sub>2</sub> is shown on display, it means Alarm 2 is turned on.
- Alarm 1 🕒<sub>1</sub> and Alarm 2 🕒<sub>2</sub> icon are shown on display, it means Alarm 1 and Alarm 2 are turned on.

### **8.4 SWITCHING OFF THE ALARM SIGNAL**

- When the alarm is ringing, press any buttons except ① [🌞 zz Light/Snooze] to stop the alarm signal. It is not necessary to reactivate the alarm. It will ring again this time next day.

### **8.5 SNOOZE FUNCTION**

- When the alarm rings, press ① [🌞 zz Light/Snooze] button to pause the alarm. The snooze indicator icon **zz** keep flashing.
- The alarm will resume after 8 minutes.

## **9 TO VIEW MAX/MIN TEMPERATURE & HUMIDITY DATA RECORD**


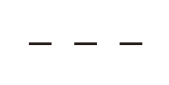
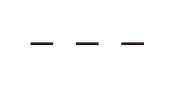


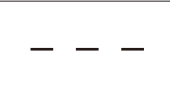





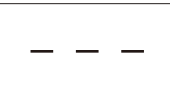






- Press ⑪ [🌡️ Max/Min] to display the maximum value of temperature/humidity readings. [MAX] icon will shown beside humidity reading.
- Press ⑪ [🌡️ Max/Min] again to display the minimum value of temperature/humidity readings. [MIN] icon will shown beside humidity reading.
- Press and hold ⑪ [🌡️ Max/Min] over 2 seconds to re-record the maximum & minimum value of the temperature & humidity.
- The memory of maximum & minimum value will be cleared at every 0:00am.

## **10 WEATHER FORECAST FUNCTION**

- The weather symbols indicate the weather fluctuation over the next 6-12 hours, not the current weather.
- Please take the weather forecast from your local weather forecasting service into account as well as the forecast from your weather station. If there are



discrepancies between the information from your device and the from the local weather forecasting service, please take the advice of the latter as authoritative.

- The weather forecast is calculated from evaluation of fluctuations in the barometric pressure and may deviate from the actual weather conditions.
- The weather station displays the following weather symbols:

Sunny			
Slightly cloudy			
Cloudy			
Rainy			
Heavy rainy			
Snowy			

## **11 BAROMETRIC PRESSURE TREND DISPLAY**

The barometric pressure trend indicator update and look back over past hour.

Barometric pressure is rising more than 2 hpa in 1 hour	Barometric pressure does not change more than 2 hpa in 1 hour	Barometric pressure is falling more than 2 hpa in 1 hour
	No display	






## 12 ICE ALERT

- The ice alert symbol ❄️ will display and flash when the outdoor temperature at 30.2°F (-1°C) to 37.4°F (+3°C).




## 13 COMFORT LEVEL

There are 3 comfort level indication based on the measured temperature and humidity:

Dry	 DRY	The humidity is below 40%
Comfort	 COM	The temperature is at 20-28°C and humidity is at 40-70%
Wet	 WET	The humidity is above 70%

**Note:** When the temperature is not 20-28°C and the humidity is 40-70%, the comfort level icon will not be displayed.

## 14 SEARCH FOR OUTDOOR SENSORS

- In Normal time display, press **12** [  **Channel** ] to select the channel display of the outdoor sensors. The selected channel will be flashing.
- During the channel display flashing, press and hold **12** [  **Channel** ] over 2 seconds to search the outdoor temperature and humidity sensor.
- The weather station can support up to 3 sensors with different channels 1/2/3.
- The signal strength icon  will animate until the sensors signal is received, or





## 15 SWITCH TEMPERATURE UNIT

In Normal display, press and release **10** [  **Down/°C/°F/RCC** ] to interchange the temperature unit between degree Celsius and degree Fahrenheit.

## **16 BACKLIGHT**

- When operating with the power cable, there are 3 levels of brightness for adjustment.
- Press ① [☀️ **Light/Snooze**] to adjust backlight.
- When operating on batteries only, the backlight will come on shortly (about 10 seconds) when ① [☀️ **Light/Snooze**] is pressed.

## **17 LOW BATTERY INDICATION**

- Low battery icon  by outdoor humidity, replace batteries in the sensors.
- Low battery icon  by indoor humidity, replace batteries in the weather station.

**Note:** When there is low battery icon indication, it means the used battery level is low, it may affect normal functions. Please replace new alkaline batteries soon in order to keep normal function.

## **18 FACTORY RESTART**

If there is malfunction, the Factory Restart is a great way to return your station to "out of the box" condition.

### **18.1 FACTORY RESTART**

- 1.) Remove all power (batteries and AC-AC adaptor) from outdoor sensors and weather station.
- 2.) Leave both units without power for 10 minutes. (very important).
- 3.) Follow the operation "**4 FIRST TIME TO USE**" to start the pair the sensor.

## **19 IMPORTANT PLACEMENT GUIDELINES**

- Mounting under an eave or deck rail works well.
- Mount the remote sensor on the North side where to prevent sun from causing incorrect readings
- Be sure the outdoor sensor is mounted vertically to drain moisture.
- Mount at least 6 feet in the air for a strong RF (radio frequency) signal.
- To prevent wireless interference, place units at least 3 ft (0.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).
- To maximize atomic signal reception, place the weather station away from large

metallic items, thick walls, metal surfaces, or other objects that may limit radio communication.

- The maximum wireless transmission range must be within 300 feet (100m) in open air, not including walls and floors.

## **20 CARE AND MAINTENANCE**

- Do not mix old and new batteries.
- Do not mix Alkaline, Standard, Lithium, or Rechargeable batteries.
- Always purchase the correct size and grade of battery most suitable for intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed with correct polarity (+ and -).
- Remove batteries from equipment which is not to be used for an extended period of time.
- Promptly remove expired batteries.

## **21 SPECIFICATIONS**

Indoor	<ul style="list-style-type: none"><li>• Temperature Range: 14.2°F - 122.0°F (-9.9°C - 50.0°C)</li><li>• Humidity Range: 1 - 99% RH</li></ul>
Outdoor	<ul style="list-style-type: none"><li>• Temperature Range: -58.0°F - 158.0°F (-50.0°C - 70.0°C)</li><li>• Humidity Range: 1 - 99% RH</li></ul> <p><b>Note:</b> Temperature below -4°F require Lithium batteries in the outdoor sensor</p> <ul style="list-style-type: none"><li>• Distance: 330ft (100m)</li><li>• Transmission frequency: 433MHz</li></ul>
Power	<ul style="list-style-type: none"><li>• Weather station primary AC-AC power: 5.0V AC, 0.15A AC-AC adaptor (included)</li><li>• Battery Backup: 2 x AAA, IEC, LR3 batteries</li><li>• Sensors: 2 x AAA, IEC, LR3 batteries</li></ul>
Dimension	<ul style="list-style-type: none"><li>• Weather station: 7.56 x 5 x 0.63 inches</li><li>• Sensors: 1.57 x 1.02 x 4.09 inches</li></ul>

## **22 FCC STATEMENT**

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

### **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 — 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 the equipment does not 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.

### **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.

WEATHER STATION

LWS125

