



Wireless Thermometer and Hygrometer

Model: SH340

User Manual

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INTRODUCTION

Congratulation on your purchase of Wireless thermometer and Hygrometer with a cable-free temperature and humidity sensor.

Enclosed with this package are one main unit and one cable-free temperature and humidity sensor.

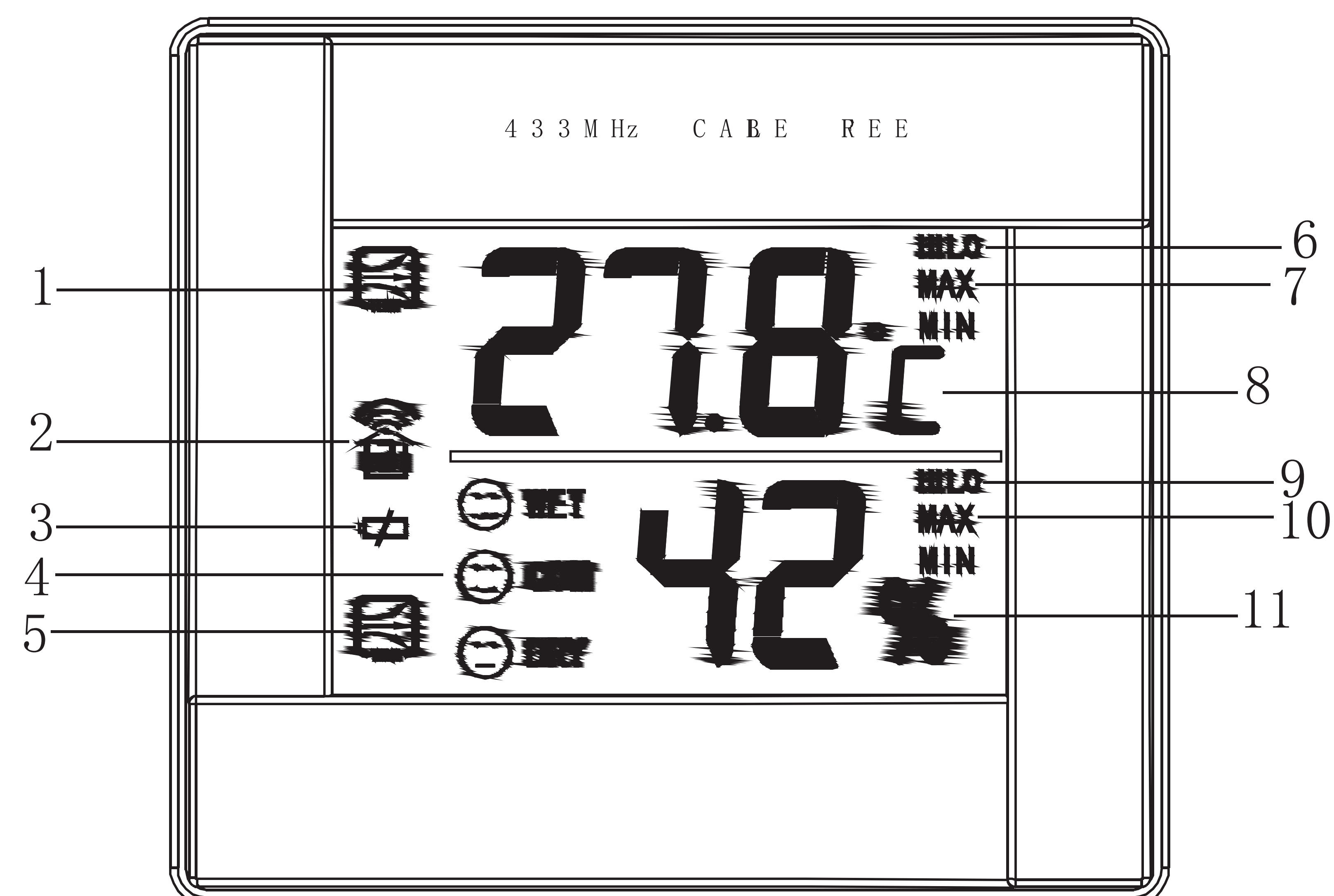
The main unit has an extra-large multifunction 2-line LCD that shows recordings for indoor and outdoor temperature, humidity, maximum and minimum recordings and trend indicators.

The unit supports up to three remote thermo-hygro sensors. A variety of additional sensors can be purchased separately.

In addition to monitoring maximum and minimum temperature and humidity readings, the unit also has an alarm that can be set to activate once readings exceed a given variance.

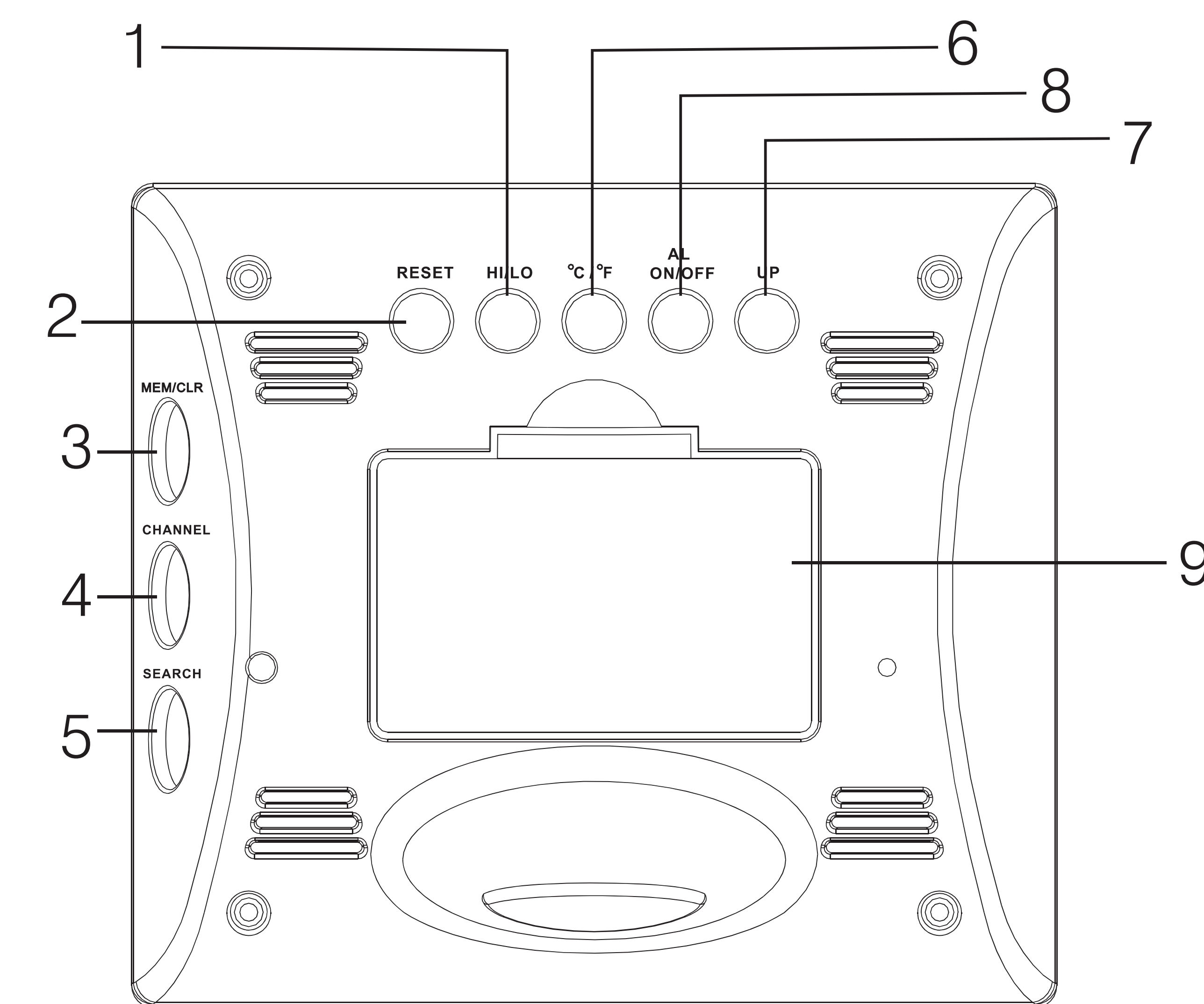
No wire installation is required between the main and remote units. The SH340 operates at 433MHz or 315MHz frequency.

OVERVIEW



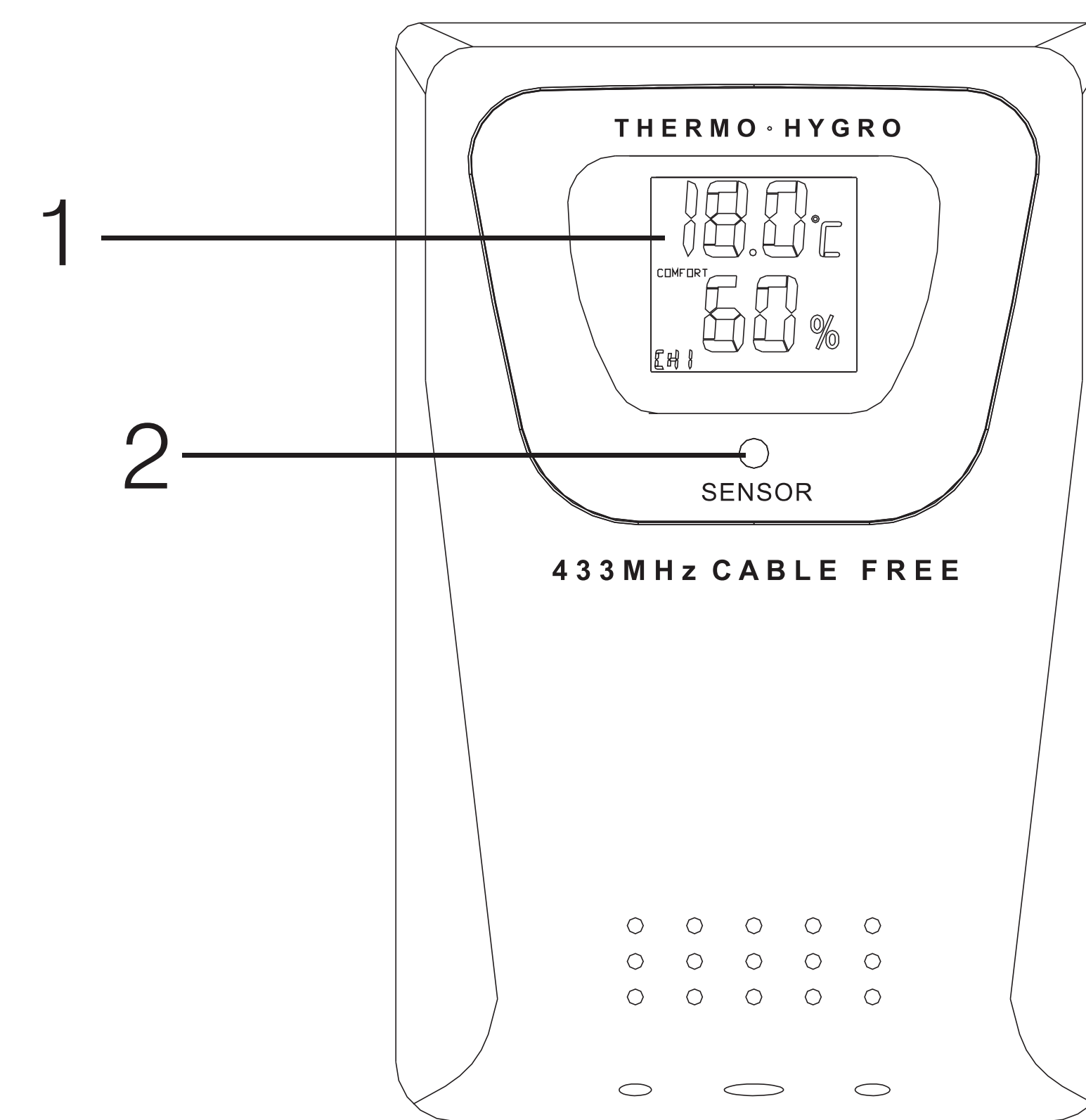
FRONT VIEW OF MAIN UNIT

1. Temperature trend
2. Sensor reception icon
3. Battery low icon
4. Humidity comfort zone
5. Humidity trend
6. Hi/Lo temperature alarm
7. Maximum and minimum temperature icon
8. Temperature display area
9. HI/Lo humidity alarm
10. Maximum and minimum humidity icon
11. Humidity display area



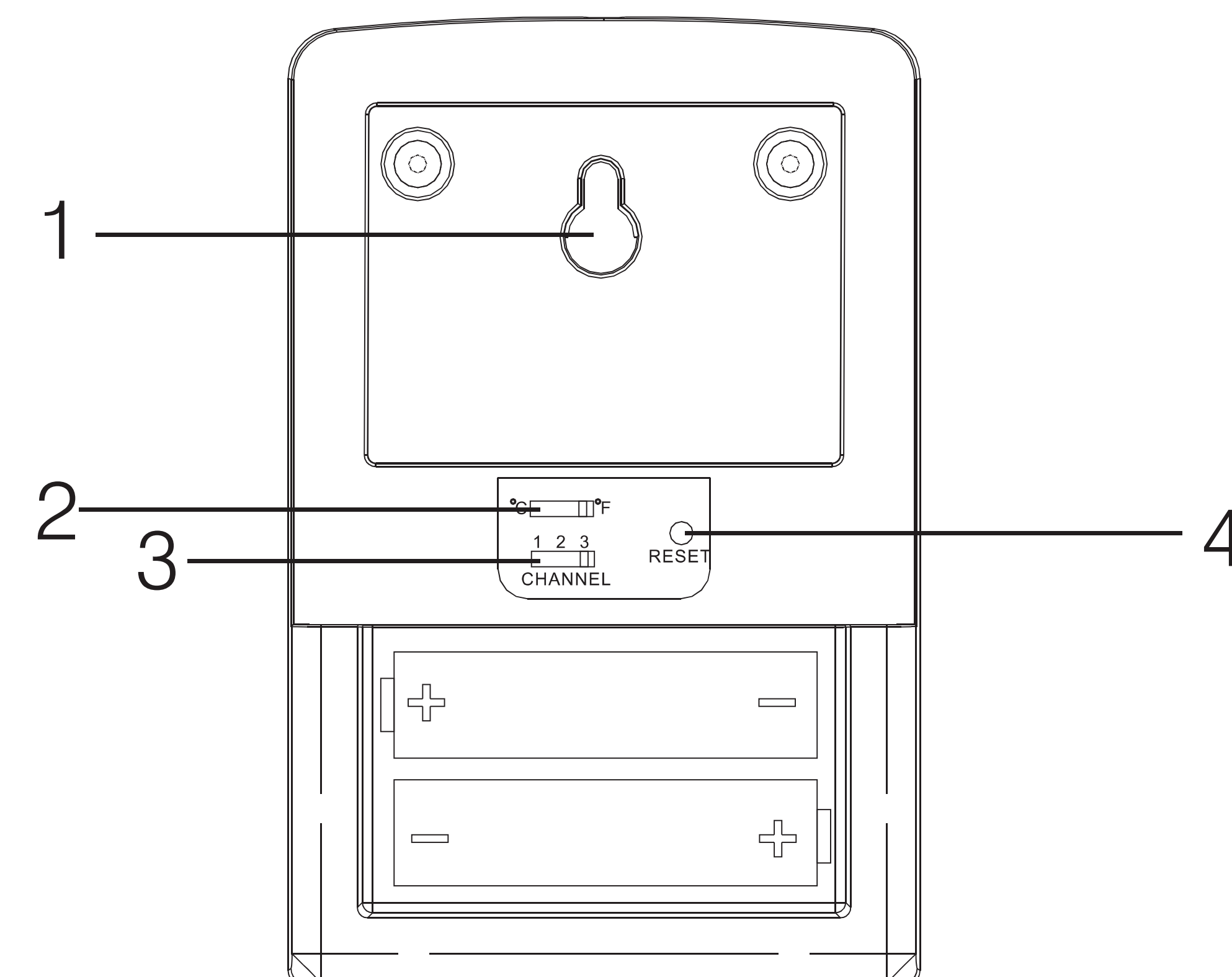
BACK VIEW OF MAIN UNIT

1. **HI/LO**: Change alarm setting, enable/disable
2. Reset
3. **MEM/CLR**: View maximum and minimum temperature and humidity. Clear the maximum and minimum temperature and humidity.
4. **CHANNEL**: Change the display of the indoor or remote sensor.
5. **SEARCH**: Searching transmitting signal
6. **°C/°F** : Select temperature display unit
7. **UP**: Increase temperature setting
8. **AL ON/OFF**: Switch on/off alarm
9. Battery compartment



**FRONT VIEW OF
REMOTE SENSOR**

- 1 . LCD display
- 2 . LED status indicator



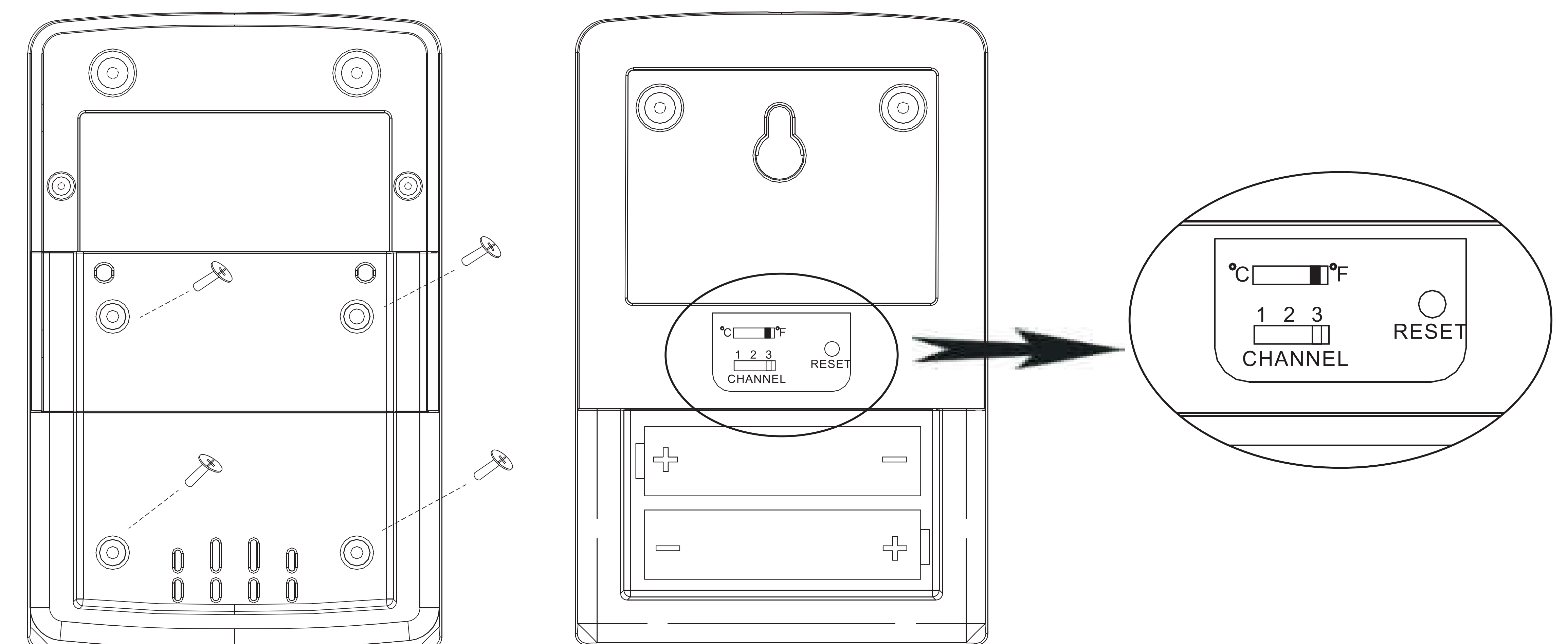
**BACK VIEW OF
REMOTESENSOR**

1. Wall mount hole
2. °C/°F switch
3. Channel number (1-3)
4. Reset

INSTALLING BATTERIES

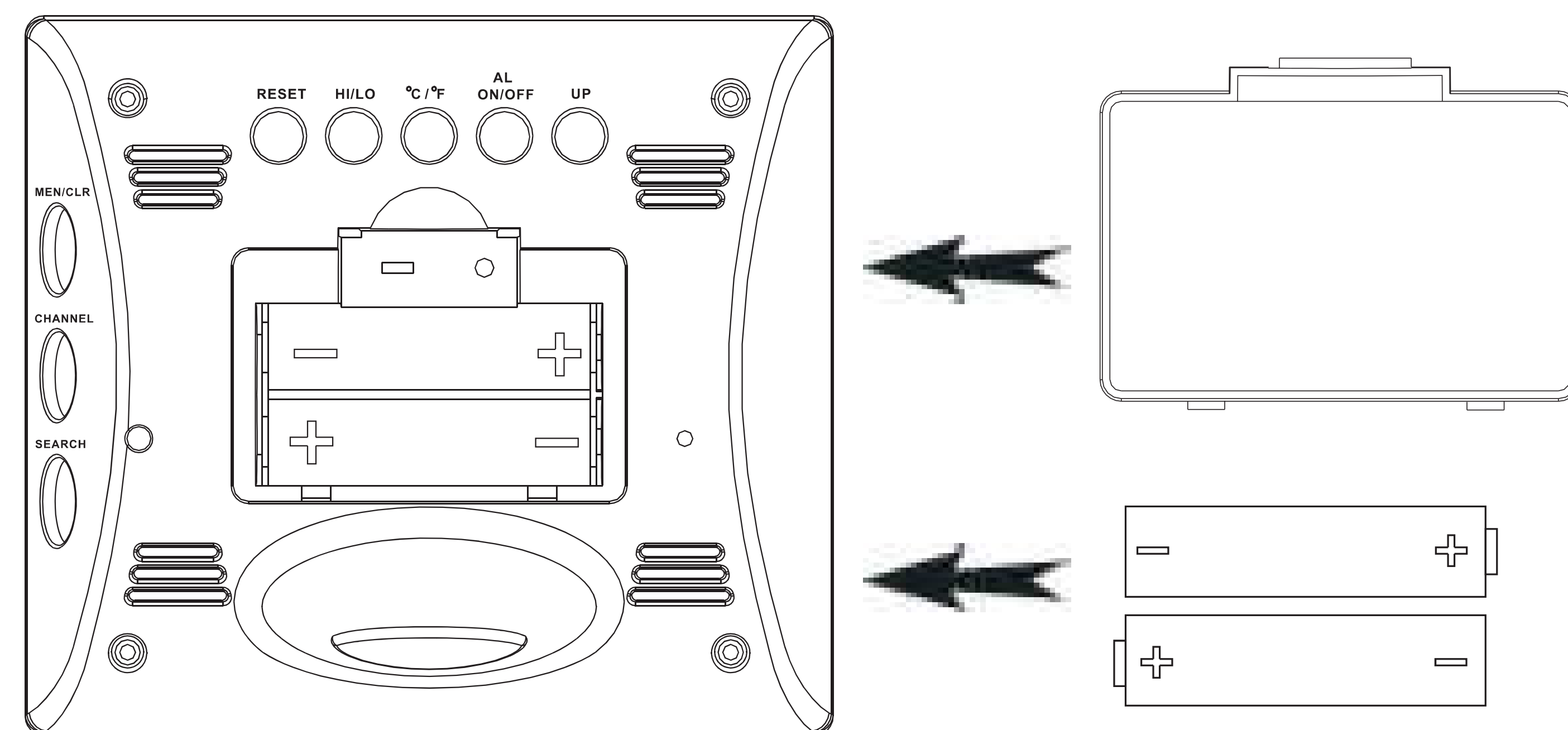
In your sensor

1. Remove screws on the battery compartment door.
2. Select the desired temperature unit on the °C/°F slide switch.
3. Select channel 1,2,3 by sliding switch.
4. Remove the pull-tab from the battery compartment.
5. Replace the battery compartment door and secure screws. Do not over-tighten.



In the main unit

1. Slides open the battery compartment door.
2. Insert the batteries strictly according to the polarities shown therein.
3. Replace the battery compartment door.



BEFORE YOU BEGIN

To ensure proper function of SH340 , follow this setup procedure.

For best operations:

1. Assign different channels to different remote units.
2. Insert batteries for remote units before doing so for the main unit.
3. Place the main unit as close as possible next to the remote unit; reset the main unit after installing batteries. This will ensure easier synchronization between the transmission and reception of signals.
4. Position the remote unit and main unit within effective transmission range, which, in usual circumstances, is 20 to 30 meters.

Note that the effective range is vastly affected by the building materials and where the main and remote units are positioned. Try various set-ups for best result.

GETTING STARTED

Once batteries are placed in a given remote sensor unit, it will start transmitting information at 40-second intervals.

Also, for approximately a 3-minute duration, the main unit will automatically search for signals once batteries are installed. Upon successful reception, the individual channel temperature reading will be displayed on the top line and the respective humidity reading on the bottom line. The main unit will automatically update its readings at about 40-second intervals.

If no signals are received, blanks “---” will be displayed and the kinetic wave icon will not show.

To force a signal search:





Press and hold SEARCH for 3 seconds to enforce a 3-minute search.

This is useful in synchronizing the transmission and reception of the remote and main units.

Repeat this step whenever you find discrepancies between the reading shown on the main unit and that on the respective remote unit.

HOW TO CHECK REMOTE AND INDOORS TEMPERATURES

Display of readings from a remote sensor or the main unit is a one step procedure. The remote sensor channel or the main unit display is indicated in box under the kinetic-wave icon.

Kinctic-wave icon				
Designated Display	Indoor Display	Remote Display Channel One	Remote Display Channel Two	Remote Display Channel Three

To display temperature/humidity readings from the main unit:





- Press **CHANNEL** until a dot is displayed in the box under the kinetic-wave.

To display temperature/humidity readings from a remote sensor:

Press **CHANNEL** until the appropriate remote sensor channel is displayed in the box under the kinetic-wave. If no readings are received form one particular channel for more than 10 minutes, blanks “---” will be displayed until further readings are successfully searched. Check the remote sensor to ensure that it is secure and the channel has been selected. Optionally, press **SEARCH** button to enforce a search.

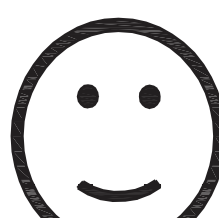

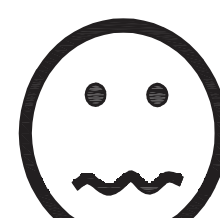
HOW TO READ THE KINETIC-WAVE DISPLAY

The kinetic-wave display shows the signal-receiving status for the main unit. There are three possible forms:

The unit is in searching mode.	. 
Transmission data are securely registered.	.   
No signals.	.

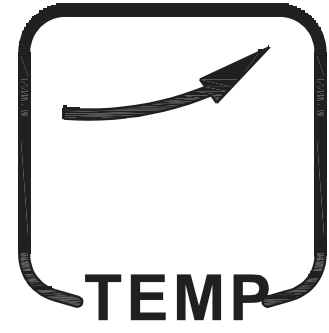
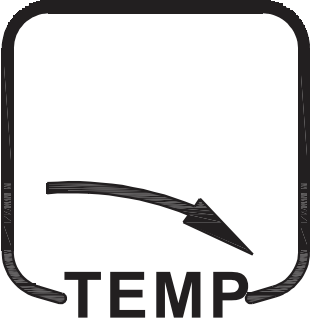
THE COMFORT-LEVEL ICONS



The comfort level is based on the recorded relative humidity. An indicator will be displayed on show if the lever is comfortable, wet or dry.

Comfort-level	 COM	 DRY	 WET
---------------	--	--	--

TEMPERATURE AND HUMIDITY TREND INDICATORS

The temperature-trend and humidity-trend indicators show the trends of collected readings. Arrows indicate a rising, steady or falling trend.

Arrow Indicator			
Temperature Trend	Rising	Stead	Falling

Arrow Indicator			
Humidity Trend	Rising	Stead	Falling

Note: If the temperature goes above or below the temperature measuring range of the main unit or the remote unit (stated in specification), the display will show “*HHH*” or “*LLL*” .

MAXIMUM AND MINIMUM TEMPERATURE AND HUMIDITY

The maximum and minimum recorded temperature and humidity readings will automatically be stored in the memory.

To display the maximum and minimum display memory:

1. Select the channel to be checked.
2. Press MEM/CLEAR once to display the maximum temperature and again the minimum temperature. The respective indicators, MAX or MIN will be displayed.

To clear the memory:

- Press and hold MEM/CLEAR now, the maximum and minimum temperatures will have the same values as the current ones until different readings are recorded.

HOW TO USE CHANNEL-1 TEMPERATURE/HUMIDITY ALARM

Upper and lower temperature and humidity limits for channel-1 can be set so that an alarm activates when the limits are exceeded.

The high and low temperature and humidity displays are selected by sequentially pressing **HI/LO**.

The high-low displays are as follows:

Sequence	Respective Display
Pressing HI/LO once	Enters HI temperature display
Pressing HI/LO twice	Enters HI humidity display
Pressing HI/LO three times	Enters LO temperature display
Pressing HI/LO four times	Enters LO humidity display

To set a high or low temperature or humidity alarm:

1. Press **HI/LO**, channel-1 will be displayed.
2. Press **UP** to set the temperature or humidity limit.
Each press will increase increments by one degree or percentage. Press and hold the button for a rapid-scrolling sequence by increments of five.

Note:

The temperature range is from -30°C (-22°F) to 70°C (158°F). If this is the first time you set the limits, the lower limit will start from -30°C (-22°F) and the upper limit 70°C (158°F). Otherwise, the reading will start from the temperature last selected.

The humidity range is from 20% to 90%.

If this is the first time you set the limits, the lower limit will start from 20% and the upper limit 90%.

Otherwise, the reading will start from the humidity last selected.

3. Repeat the steps to set the upper humidity setting and the lower temperature and humidity settings.
4. When finished, press **HI/LO** to set another limit or wait 16-seconds and the unit will automatically return to the normal display. The respective **HI**, **LO** or both indicators will light up to signify the status of the alarm.

If in another channel other than channel one is selected, when the alarm activates the display will switch to channel-1 and the display will flash. If left untouched, the alarm will activate for a 1-minute.

Press any key to momentarily stop the alarm. The alarm will activate again if the limit continues exceeds the set limit.

***Note:** If a second limit is passed while an alarm is active, the first alarm will complete its 1-minute cycle and the alarm will continue to activate for a second minute to indicate that a second limits has been surpassed.*

To disable an alarm:

1. Enter the setting mode by pressing **HI/LO**.
2. Then, press **AL ON/OFF**.

The alarm has been disabled and will not sound at the previously set limit.

To disable a sounding alarm:

- Press any button, the alarm sound will stop.

DISCONNECTED SIGNALS

If without obvious reasons the display for a particular channel goes blank, press **SEARCH** to enforce an immediate search.

If that fails, **CHECK:**

1. The batteries of both the remote unit and main unit. Replace as necessary.

Note that when the temperature falls below freezing point, the batteries of outdoor units will freeze, lowering their voltage supply and the effective range.

2. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.

TRANSMISSION COLLISION

Signals from other household devices, such as doorbells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature readings will resume once the interference recedes.

NOTE ON °C AND °F

The unit of temperature display is selected on the °C/°F side switch. Select °C for Centigrade or °F for Fahrenheit.

Note that the remote temperature display on the main unit is dominated by the selection on the °C/°F slide switch of the main unit. Whatever the display units of the remote sensors are, they will be automatically converted to the chosen one of the main unit.

LOW BATTERY WARNING

When it is time to replace batteries, the respective low-battery indicator will show up when the respective channel is selected. The battery level of the main unit will be shown on the indoor temperature when it is running.

THE RESET BUTTON

This button is only used when the unit is operating in an unfavorable way or malfunctioning. Use a blunt stylus to hold down the button. All settings will return to their default values.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the use's manual. Do not mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

SPECIFICATIONS

Main unit

Measuring temperature range : -10°C to 50°C
(14°F to 122°F)
Temperature operating : -10°C to 50°C
(14°F to 122°F)
Temperature resolution : 0.1°C (0.2°F)
Measuring Humidity range : 20% to 90%

Remote temperature unit

Measuring temperature range : -30°C to 70°C
(-22°F to 158°F)
Temperature operating : -30°C to 70°C
(-22°F to 158°F)
Temperature resolution : 0.1°C (0.2°F)
Measuring Humidity range : 20% to 90%

General

RF Transmission Frequency: 433MHz
No. of Remote Unit : Maximum of 3
RF Transmission Range : 30 meters(at sight)
Temperature compensation: 0.1℃ (0.2°F)
Temperature sensing cycle: Around 40 seconds

Power

Main unit : 2 pcs “AA” 1.5v
 alkaline battery
Remote Sensor : 2 pcs “AAA” 1.5v
 alkaline battery

Weight

Main unit : 175g
Remote Sensor : 75g

Dimensions

Main unit : 132*118*55mm
Remote Sensor : 92*60*20mm



Warning:

The content of this manual is subject change without further notice.

Due to printing limitation, the displays show in this manual many different from the actual display.

The manufacturer and its supplies held no responsibility to your or any other person for any damage expense, lost profits, or any other claim arise by using this product.

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