

Wind & Weather Wireless Rain and Temperature Monitor

RG1736
User Manual

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INTRODUCTION

Thank you for selecting the Wind & Weather Wireless Rain and Temperature Monitor. This device monitors and displays rainfall data along with the indoor/outdoor temperature from up to three remote locations. In this package you will find:

- One main unit (receiver)



- One remote rain gauge (transmitter)



- One remote temperature sensor (transmitter)



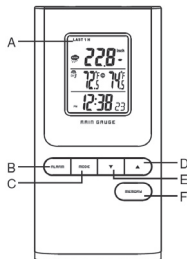
Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

PRODUCT OVERVIEW MAIN UNIT—FEATURES

- Wireless transmission of the rainfall data from the remote rain gauge to the main unit up to 100 feet (30 meters) away
- Wireless transmission of the temperature from the remote temperature sensor to the main unit up to 100 feet (30 meters) away
- Rainfall may be displayed in inches or mm
- Programmable Rain Alarm
- 7 days of rain collection history
- Built-in rain gauge installation level
- Indoor and remote temperature display
- Min/Max Memory for indoor/outdoor temperature
- Hourly, daily and weekly rainfall history
- Monitors temperature in up to 3 remote locations
- Quartz clock with calendar
- Programmable Time Zones
- Day of the week in English, German, French, Spanish or Italian
- Dual crescendo alarm with snooze
- Programmable Ice Warning Alarm
- Wall mount or desktop option
- Low battery indicator
- LED backlight

FRONT VIEW (Rain Mode Control Panel)

A. Weather and Time Information in a Three-Line LCD Display



B. ALARM button

- Toggles between the rainfall modes—current rainfall data and rain alarm programming mode
- Activates the high rainfall alarm setting mode

C. MODE button

- Toggles between the rainfall modes—for the past hour, 24 hours, and for the past 7 days

D. UP (▲) button

- Toggles between the rainfall modes—for the past hour, 24 hours, and for the past 7 days
- Increases all function parameters; press and hold for rapid increase
- Enables or disables rain alarm

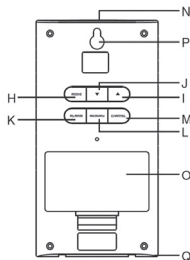
E. DOWN (▼) button

- Toggles between the rainfall modes—for past hour, for the past 24 hours, and for the past 7 days
- Decreases all function parameters; press and hold for rapid decrease
- Enables or disables high rain alarm
- Enforces the remote rain gauge signal search

F. MEMORY button

- Toggles between the rainfall memory modes—for the past hour, 24 hours, and for the past 7 days
- Clears the memory

REAR VIEW (Time and Temperature Controls Panel)



H. MODE button

- Toggles between four clock modes—time with seconds, time with the day of the week, Time Zone

programming and calendar

I. UP (▲) button

- Increases all time and temperature function parameters
- Enables the time alarms

J. DOWN (▼) button

- Decreases all time and temperature function parameters
- Disables the time alarms
- Enforces the remote temperature sensor signal search

K. ALARM button

- Toggles between the alarm modes—weekday alarm ((W)), single alarm ((S)) and ice warning alarm (Pre-AL)

L. MEMORY button

- Toggles between current, minimum and maximum readings of the indoor and remote temperatures
- Clears the memory

M. CHANNEL button

- Recalls a different channel of the remote temperature
- Enables remote temperature channels auto scanning feature

N. SNOOZE/LIGHT button

- Enables backlight for 5 seconds
- Stops any alarm temporarily

O. BATTERY COMPARTMENT

- Uses 2 (two) UM-3 or AA 1.5V alkaline batteries

P. WALL-MOUNT RECESSED HOLE

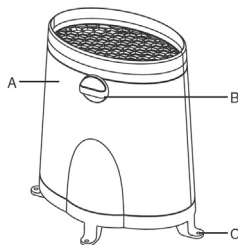
- Keeps the main unit on the wall

Q. REMOVABLE TABLE STAND

- Keeps main unit in upright position on a flat surface

REMOTE RAIN GAUGE—FEATURES

- Precipitation measurement
- Remote rainfall data transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- Built-in installation level
- Mounting hardware
- Non-corrosive protective screen



A. RAIN GAUGE BUCKET

- Holds all rain gauge components

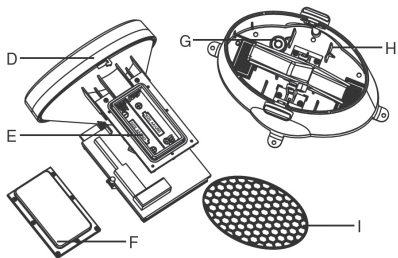
B. KNOB

- Secures the top on the rain gauge bucket

C. RAIN GAUGE BUCKET FEET

- Allow securing the rain gauge on its place

REMOTE RAIN GAUGE



D. FUNNEL-SHAPED TOP

- Contains battery compartment and rainfall counting electronics

E. BATTERY COMPARTMENT

- Holds 2 (two) AA-size batteries

F. SCREWS

- Secure battery compartment cover

G. BUILT-IN LEVELER

- Allows leveling rain gauge on the surface

H. BUCKET SEE-SAW MECHANISM

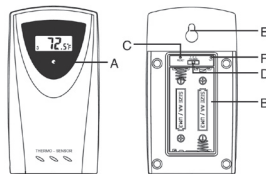
- Collects the rainfall in one of its containers and self-empties once full

I. PROTECTIVE SCREEN

- Protects the rain gauge funnel from debris

REMOTE SENSOR—FEATURES

- Remote temperature transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- LCD display of measured temperature
- Three transmission (3) channels selection
- Selection of the temperature display in °C or °F
- Case can be wall mounted using built-in hanger



A. LED INDICATOR

- Flashes once when the remote temperature sensor transmits a reading to the main unit
- Flashes twice when battery power is low

B. BATTERY COMPARTMENT

- Holds two AA-size batteries

C. RESET

- Resets all readings

D. CHANNEL SWITCH

- Selects the desired channel

E. WALL-MOUNT RECESSED OPENING

- Keeps the remote temperature sensor on the wall

F. °C/ °F SELECTOR

- Selects the temperature display in °C or °F

BEFORE YOU BEGIN

- We recommend using alkaline batteries for the remote rain gauge, temperature sensor and main unit when temperatures are above 32°F (0°C). We recommend using lithium batteries when temperatures are below 32°F (0°C).
- Do not use rechargeable batteries.
- **ALWAYS install batteries in the remote rain gauge and the remote temperature sensor before the main unit.**
- Insert batteries before first use, matching the polarity in the battery compartment.
- Press **RESET** in the remote temperature sensor after each battery change with a paper clip or similar tool.
- Remove protective plastic screen from LCD display.
- During initial setup, place the main unit close to the remote rain gauge and remote temperature sensor.
- **Important:** Only after reception is established (the remote rainfall data and temperature will appear on the main unit's display), you may position and mount the remote sensors (the rain gauge and the temperature sensor) and the main unit within the effective transmission range of 100 feet (30 meters).
- Place the remote rain gauge outdoors on a level, open area, away from walls, fences and trees.
- It is important that excess precipitation can freely flow from the remote rain gauge.

- The remote temperature sensor can be placed indoors or outdoors, depending on the area where the temperature is intended to be measured.
- The main unit must be placed indoors.

NOTE:

1. **Avoid pressing any buttons on the main unit before the remote rainfall and temperature data is displayed.**
2. The effective operating range may be influenced by the surrounding building materials and how the receiver (main unit) and transmitters (remote rain gauge and temperature sensor) are positioned.
3. Place the remote rain gauge and temperature sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.
4. Though the remote temperature sensor is weather-resistant, it should be placed away from direct sunlight, rain, or snow. The best suggested location for the remote temperature sensor for outdoors is under an eave on the north side of the building.

NOTE: When temperatures fall below freezing, the batteries in the remote rain gauge and outdoor remote temperature sensor may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below. We also recommend covering the remote rain gauge tightly with plastic during snow storms or move it indoors.

BATTERY INSTALLATION— REMOTE RAIN GAUGE

- Unlock the funnel-shaped top by turning both knobs on the sides in a counter-clockwise direction.
- Remove the funnel-shaped top.
- Remove 7 small screws from the battery compartment cover using a small Phillips screwdriver.
- Insert 2 “AA” size alkaline batteries (not included), matching the polarities as shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Insert the funnel-shaped top into the rain gauge bucket and secure it into place by turning the knobs clockwise.

RAIN GAUGE PLACEMENT TIPS

- Make sure that the remote rain gauge is level—check if the ball bearing inside the bucket is at the midpoint of the leveler.
- Place the protective screen over the top to protect the rain gauge from debris.
- Mount the rain gauge using mounting hardware provided.
- Make sure the rain gauge is in open area where precipitation falls directly into the gauge’s bucket, ideally 2–3 feet above the ground.

BATTERY INSTALLATION— REMOTE TEMPERATURE SENSOR

NOTE: Install the batteries; select the channel and temperature in °C or °F before mounting the remote temperature sensor.

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure remote temperature sensor in the desired location.

BATTERY INSTALLATION— MAIN UNIT

- Open the battery compartment door.
- Install 2 “AA” size batteries matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

LOW BATTERY WARNING

A low-battery indicator [] will appear on the remote rainfall reading line and the indoor or remote temperature reading line of the main unit, warning that the corresponding batteries need replacement.

HOW TO USE THE TABLE STAND

The main unit has a removable table stand that supports it on the flat surface. Attach table stand to the bottom of the main unit in the slots provided. The main unit can also be mounted on the wall using the recessed screw hole. The table stand must be removed prior to wall mounting. The remote temperature sensor can be similarly mounted or placed on a flat surface.

GETTING STARTED

After batteries are installed, the remote temperature sensor will transmit temperature readings at 45-second intervals. The remote rain gauge will transmit rainfall data at 183-second intervals. The main unit may take up to two minutes to receive the initial readings. Upon successful reception, the rainfall reading (**0.00**) will appear on the top line of the main unit's display and the remote temperature will appear on the line below. The main unit will automatically update readings at 45-second intervals.

If no signal is received from the remote temperature sensor within two minutes, dashes [“-”] will be displayed. Press and hold the front panel **DOWN** (▼) button on the main unit for two seconds or until the Rain symbol starts flashing, to initiate a signal search for the remote rainfall. Press and hold the back panel **DOWN** (▼) button on the main unit for two seconds to initiate a signal search for the remote temperature.

REMOTE AND INDOOR TEMPERATURES

The remote temperature information is located on the middle line of the main unit's display. The indoor temperature with the icon **IN** is located next to the remote temperature. The wave icon above the remote channel number indicates the reception status from the remote temperature sensor. There are three following types of the reception status that may be displayed:

The Unit is in searching mode	
Temperature readings are securely registered	
No signal	

NOTE: If the indoor or remote temperature goes above or below operating range stated in specifications, the main unit's display will show dashes “-”.

AUTO-SCANNING

Press and hold the **CHANNEL** button on the back of the main unit for 2 seconds—the icon “U” will appear on the display's middle line below the remote temperature channel number. All 3 remote temperatures will be displayed one-by-one automatically for 4 seconds each in the following sequence: Channel 1, Channel 2 and Channel 3. To exit from scanning mode, press and hold the **CHANNEL** button (on the back) for 2 seconds, and the icon “U” will disappear, returning the main unit to the default display mode.

CHECKING REMOTE RAINFALL DATA

The remote rainfall information line is located on the top line of the main unit's display. The rain icon "☔" is located to the left of the rainfall reading and indicates the reception status from the remote rain gauge. There are three types of reception status that may be displayed:

The Unit is in searching mode	
Rainfall readings are securely registered	
No signal	

Press and hold the **MODE** button on the front panel to display the rainfall reading in inches or mm.

RAINFALL HISTORY

The rainfall history records will be automatically stored in the memory of the main unit. There are three historical records that may be displayed—the past hour, past day, and past week.

- To display any of available rainfall history reading, use any button on the front panel except the **ALARM** button. The display sequence is: **LAST HOUR**, **LAST 24 HOURS**, and **LAST 7 DAYS**.
- To clear the memory, press and hold **MEMORY** button on the front panel for two seconds and all previously stored readings will be erased (all the historical records will display a default reading 0.00).

MAXIMUM AND MINIMUM TEMPERATURE

The maximum and minimum record of the indoor and remote temperatures will be automatically stored in the memory of the main unit.

- To display the minimum, maximum, or the current reading, press **MEMORY** button on the back panel.
- To clear the memory, press and hold **MEMORY** button on the back for two seconds and all previously stored readings will be erased.

LOST COMMUNICATION

If the main unit display line for the remote temperature sensor reading goes blank, press and hold the back **DOWN (▼)** button for 2 seconds to begin a new signal search. If the signal still isn't received, please make sure that:

- The remote temperature sensor is in its proper location.
- The distance between main unit and remote temperature sensor is not over 100 feet (30 meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote temperature sensor and main unit.

If there is no reception, please perform the following steps:

- Bring the main unit and remote temperature sensor close together.
- Remove four (4) small screws from the back of the

remote temperature sensor with small Phillips screw-driver, and open the battery compartment.

- Remove the batteries and reinstall them in the same manner. Remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- The remote temperature appears on the main unit's display showing that transmission is being received successfully.

If the main unit display line for the remote rain gauge reading goes blank, press and hold the front **DOWN** (▼) button for 2 seconds to begin a new signal search. If the signal still isn't received, please make sure that:

- The remote rain gauge is in its proper location.
- The distance between main unit and remote rain gauge is not over 100 feet (30 meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote rain gauge and main unit.

TRANSMISSION COLLISION

Signals from the other household devices such as wireless doorbells, home security systems, and entry control, may interfere with this product or cause temporary reception interruption. This is normal and will not affect the general performance of the product. The transmission and reception of the remote readings will

resume once the interference subsides.

CALENDAR AND CLOCK DISPLAY MODES

Date is displayed in month-date or date-month format. Each press of the **MODE** button on the back panel will toggle the clock modes between the time with seconds, time with the day, time zone and a calendar.

MANUAL SETTINGS—CLOCK

- Press and hold **MODE** button for 3 seconds: the language letters will flash.
- Press **UP** (▲) or **DOWN** (▼) to change flashing letters.
- After the first value is set, press **MODE** button again to move to the next value.
- Continue setting temperature in Celsius or Fahrenheit, year, month, date, calendar format, 12 or 24 hour time format, hour and minutes.
- Press **MODE** for the last time to return to the default mode (time of day with seconds) after the last parameter is set.

TIME ZONE

- Select Time Zone setting mode by pressing **MODE** button until the word “**ZONE**” appears to the left of time display.
- Press and hold **MODE** button until flashing “**0:00**” digits appear prompting to set the desired time zone in 30 minutes intervals.

ALARMS—HIGH RAIN ALARM

The high rain alarm for the past 24 hours can be set and displayed at any time by pressing **ALARM** button on the front panel.

To set the high rain alarm,

- Press the **ALARM** button on the front panel until the “**ALARM HI**” appears on the upper right corner of the rainfall information line.
- Press and hold the **ALARM** button for 2 seconds or until the rainfall data digits flash.
- Enter the rainfall amount you want to set the rainfall alarm for using the front panel **UP** (▲) or **DOWN** (▼).
- Press the **ALARM** button again to confirm that the high rain alarm is set. Leave in Alarm Hi mode until alarm has sounded.

NOTE: Press and hold the **MODE** button on the front panel to display the rainfall reading in inches or mm.

TIME ALARMS

The Wireless Rain Monitor has three available time alarms—Weekday alarm ((W), Single alarm ((S) and Ice Warning Alarm (**Pre-AL**).

- If **Weekday** alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.
- If **Single** day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- If **Ice Warning** alarm is activated, it will sound at

the set time and alarm icon will flash if the remote temperature for Channel One (1) reaches 35.6°F (+2°C) and below.

NOTE: Ice Warning Alarm can be set only if one or both of the Weekday or Single alarm are programmed.

SETTING WEEKDAY & SINGLE DAY ALARMS

- Press **ALARM** button once to enter into the alarms setting mode. The default alarm is a Weekday alarm. The abbreviation “**OFF**” with a letter “(W)” next to it will be displayed if the alarm has not been set previously.
- Press and hold the **ALARM** button for two seconds. The hour digit will flash.
- Enter the hour using back panel **UP** (▲) or **DOWN** (▼).
- Press the **ALARM** again. The minute digits will flash.
- Enter the minutes using **UP** (▲) or **DOWN** (▼).
- Press the **ALARM** button again to confirm that the weekday alarm is set.
- Set **Single** day alarm in the same manner.

SETTING THE ICE WARNING ALARM

If Weekday or Single day alarm is set, the Ice Warning Alarm can be programmed.

- Press the back panel **ALARM** button once to enter into the Ice Warning Alarm setting mode. The abbreviation “**OFF**” with a “**PRE-AL**” next to it will show.

- Press and hold the back panel **ALARM** button for two seconds. The “30” number will flash, meaning that if selected, the alarm will sound 30 minutes earlier than the Weekday or Single alarm.
- Enter the desired minutes from 15 to 90 minutes in 15 minutes intervals, using **UP** (▲) or **DOWN** (▼).
- Press back panel **ALARM** button again to confirm and exit from the alarm setting mode.

ACTIVATING THE ALARM

- Press **ALARM ON/OFF** button to enter into the alarms mode.
- Press **DOWN** (▼) to activate or **UP** (▲) to deactivate desired alarm. When alarms are activated, the corresponding icons will be displayed.

SNOOZE

When any alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop the alarm. After the **SNOOZE/LIGHT** is depressed, the alarm sound will resume in eight minutes. If the alarm is not disabled after that, it will sound for four more minutes and then stop by itself.

PRECAUTIONS

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

- Do not immerse the units in water.
- Do not clean the units with abrasive or corrosive ma-

terials. They may scratch the plastic parts and corrode the electronic circuits.

- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the units internal components. Doing so will invalidate the warranty and may cause damage. These units contain no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the units.

SPECIFICATIONS

Main Unit—Time

- 12/24 hour display in hh: mm format
- Date format: month-day or day-month format
- Day of the week is selectable in five languages (English, Spanish, French, German, Italian)
- Time zone manual adjustment
- Dual two-minute crescendo alarms with 8 minutes snooze
- Programmable ice warning alarm (Channel 1)

Main Unit—Weather

- Rainfall—Range: 0 to 1999.9mm; 0 to 78.74 inch; Rainfall resolution: 0.04 inch (1mm)
- Indoor Temperature—Range: -5.0° to +50.0°C; 23.0° to 122.0°F; Temperature resolution: 0.1°C/0.2°F

- User-selectable (°F or °C) temperature display
- LED backlight
- Low battery indicator
- Wall Mount or Desktop option

Remote Rain Gauge—Remote Rainfall Data

- Operating range: -5.0° to +50.0°C; 23.0° to 122.0°F
- RF transmission frequency: 433 MHz
- RF transmission range: maximum 100 feet (30 meters)
- Rainfall transmission cycle: approximately 183 seconds

Remote Temperature Sensor—Remote Temperature

- Operating range with alkaline batteries: -20.0° to +70.0°C; -4.0° to +158°F
- Operating range with lithium batteries: -38.8° to +70.0°C; -38.0° to +158°F
- Temperature resolution: 0.1°C/0.2°F
- Low battery indicator
- RF transmission frequency: 433 MHz
- Maximum number of remote sensors: 3 (1 included)
- RF transmission range: maximum 100 feet (30 meters)
- Temperature transmission cycle: approximately 45 seconds

Power

- Main unit: 2 AA size (UM-3) 1.5V batteries (not incl)
- Remote sensor: 2 AA size (UM-3) 1.5V batteries (not included)
- Remote rain gauge: 2 AA size (UM-3) 1.5V batteries (not included)

Dimensions

- Main unit: 2¾"W x 5½"H
- Remote sensor: 2¼"W x 4"H
- Remote rain gauge: 6½"W x 7"H

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, 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.

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 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.

DECLARATION OF CONFORMITY

We

Name: Hideki Electronics, Inc.

Address: 7865 SW Mohawk, Tualatin, OR 97062

Telephone No.: 1-503-612-8395

declare that the product

Product No.: TC150

Product Name: Wireless Rain Gauge

Manufacturer: Hideki Electronics Ltd.

Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
is in conformity 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.

STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for one year from date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair. Note that online product registration is required to ensure valid warranty protection.

Should you require assistance with this product and its operation, please contact Wind & Weather Customer Service at 1-877-255-3700.

Please direct all returns to the place of the original purchase. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.

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