Wireless Rain Gauge
Model R681

Congratulations on your purchase of the Model R681 Wireless Rain Gauge. Your new Rain Gauge has many unique features to keep you informed on the rainfall of the last ten days. Enclosed with this package are one main display unit and one remote rain collector. Please read all the instructions to ensure understanding of the features.
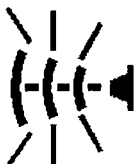
COMPONENTS

1. 1-Main unit
2. 1-Rain collector
3. 4-AA batteries: two for Main unit and the other for Rain collector.

First reception after power-up

After installing batteries, the LCD will full display with the sound of "BI". Then, it starts to search for the RF signal.

In an optimal condition, the rainfall can be displayed within 3 minutes.

The RF signal indicator shows the signal-receiving status of the main unit. There are three possible forms:

NO SIGNAL DETECTION	SIGNAL DETECTING	SUCCESSFUL RECEPTION

Press SEARCH button and hold it for 2 seconds continuously to start the reception.

Interrupted signals

The success of wireless data transmission may vary and is directly related to the positioning of the remote rain collector and the environmental factors of that location. Should there be difficulty in data transmission, press SEARCH button and hold it for 2 seconds continuously to initiate a search signal between the main unit and the Rain Collector unit.

If main unit remains no signal detection verify that:

- The remote rain collector is still in place.
- The batteries of both the main unit and rain collector are good. Replace if necessary.
- The transmission is within range and path is clear of obstacles and interference. Shorten the distance if necessary.

Then press SEARCH button hold it for 2 seconds continuously again.

Setting alarm time

At the normal display, press MODE/ALM SET button once to enter the alarm time display mode.

Note: If there isn't any operation within 5 seconds, it will exit from the alarm time display mode automatically.

- In the alarm time display mode, hold MODE/ALM SET button for 2 seconds continuously to enter setting alarm time mode. First, the alarm hour will flash.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of the alarm hour.
- Until the intended alarm hour is selected, press MODE/ALM SET button to confirm and the alarm minute will flash.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of the alarm minute.
- Until the intended alarm minute is selected, press MODE/ALM SET button to confirm and exit from the alarm setting mode.

Note: If there isn't any operation within 1 minute, it will exit from the alarm setting mode automatically.

Switch the alarm on/off and snooze function

- At the alarm time display mode, press UP/12/24 button or DOWN/°C/°F button to switch the alarm on/off. When the icon ☒ displays and that indicates the alarm is on; when the icon ☒ disappears and that indicates the alarm off.

- If the alarm is on, the unit will ring when the preset time arrives. At this time, do not press any button, it will ring for 90 seconds then stop; If pressing SNOOZE/LIGHT button will activate the snooze function with the icon 🕒 flashing and the ring will be interrupt, but after 5 minutes it will ring again unless press other buttons to turn off the snooze function.

Setting calendar and time

At the normal display, press MODE/ALM SET button and hold it for 2 seconds continuously to enter the setting mode.
The setting order is as follow: calendar → M/D or D/M display format → language for week → time.

- In the setting mode, first, the Year is flashing. Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of Year.
- Until the intended Year is selected, press MODE/ALM SET button once to confirm and the Month will flash.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of Month.
- Until the intended Month is selected, press MODE/ALM SET button once to confirm and the Date will flash.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of Date.
- Until the intended Date is selected, press MODE/ALM SET button once to confirm and enter choosing the date display mode.
- Press UP/12/24 button or DOWN/°C/°F button to choose M/D or D/M display format.
- Then press MODE/ALM SET button once to confirm your choice and enter choosing the language for week.
- Press UP/12/24 button or DOWN/°C/°F button to choose from among the six languages as follow: EN (English), DU (Dutch), FR (French), GE (German), IT (Italian), SP (Spanish).
- Then press MODE/ALM SET button once to confirm your choice and enter the setting Time mode. First, the Hour is flashing.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of Hour.
- Until the intended Hour is selected, press MODE/ALM SET button once to confirm and the Minute will flash.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of Minute.
- Until the intended Minute is selected, press MODE/ALM SET button once to confirm and exit from the setting mode.

Note: If there isn't any operation within 1 minute, it will exit from the setting mode automatically.

12-hour/24-hour format

The 12-hour/24-hour format you select is also applied in all other modes.

- With the 12-hour format, the PM indicator appears on the display for times in the range of noon to 11:59 p.m. and the no indicator appears for times in the range of midnight to 11:59 a.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, with no indicator.

The current day's maximum rainfall alert

- At normal display, press ALERT button once to enter the display mode of alert for the current day's maximum rainfall, and the icon ▲ will keep flashing. (Note: If there isn't any operation within 5 seconds, it will exit from the maximum rainfall alert display mode and return to the normal display.)
- Then hold ALERT button for 2 seconds continuously to enter the setting alert mode.
- Press DOWN/°C/°F button and UP/12/24 button to decrease and increase the value of rainfall. (the default value is 1000 ㎜)
- Then press ALERT button once to confirm. The icon ▲ will keep display on the screen, and that indicates the alert is on. If you press this button once again the icon ▲ will disappear, and that indicates the alert is off.
- When the rainfall of the current day is over (including) the preset value, the unit will alarm. If press no button, it will ring every 5 minutes; if press any button can stop alarm but the digit and the icon ▲ will not keep flashing until you turn off or reset the alert.

Total rainfall

The total rainfall is displayed in the outside field. Upon initial activation, the rainfall amount will be displayed in millimeters.

Press the HIS/UNIT button and hold it for 2 seconds continuously to select between inches and *millimeters*.

To display the start date and time of the record. press SINCE button once, the date will appear on the LCD screen; press it again, the time will appear, press it once again it will return to normal display.

To clear the record, hold SINCE button for two seconds and the current date will be set as the start date. Note that this will also clear the total and current rainfall.

Note: At normal display press DOWN/°C/°F button or UP/12/24 button to switch the display of the total rainfall to the current day rainfall.

Rainfall history

Press the HIS/UNIT button to scan the records of each day. A total of 9 day's rainfall history can be recorded and displayed. Records for previous days are shown with a minus (-) sign: for example: (-1) is the record for the previous day and (-2) would be the record for two days preceding the current day. To clear the current day rainfall. hold the SINCE button for two seconds. Note that this will also clear the total rainfall record and start date of the record.

Switch temperature format

At normal display. press DOWN/°C/°F button and hold it for 2 seconds continuously to switch °F to °C.

Back light function

Press SNOOZE/LIGHT button any time will turn on the backlight and last for 5 seconds.
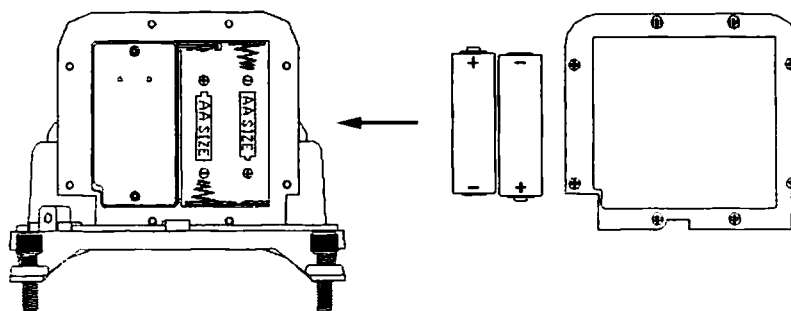
Low battery warning

There are two low-battery 🔋 indicators. The indicator for the rain collection unit is shown on the outside part, and the indicator for the main unit is shown on the inside part. Replace the batteries immediately when the respective indicator appears.
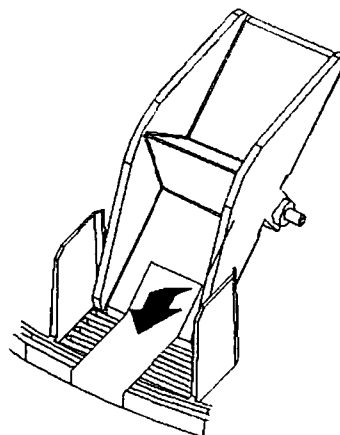
RAIN COLLECTOR

Battery installation & setting up

The Rain Collector uses 2 UM-3 or AA alkaline batteries.

1. Remove the screws on the Rain collector as indicated in the diagram and insert the batteries in accordance with the polarities shown.

2. Remove the fiber tape from the Rain Collector assembly.

3. Position the main unit and rain collector within effective range of each other (up to 30 meters).

4. Press the Reset button on the remote rain collector to reset to the default setting.

5. Press Clear button on the remote rain collector to clear some wrong data and initiate operation.

Note: The rain collector cannot be directly placed on the ground. because heavy rainfalls will flood it. It is recommended to place the rain collector on a platform or rooftop to keep out of reach of children or pets.

MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water. dry it immediately with a soft lint-free cloth.

2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.

3. Do not subject the unit to excessive: force. shock. dust, temperature, or humidity. Such treatment may result in malfunction. a shorter electronic life span. damaged batteries, or distorted parts.

4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.

5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.

6. Read this instruction manual thoroughly before operation the unit.

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NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY

UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S

AUTHORITY TO OPERATE THE EQUIPMENT.