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Prospect House
George Cayley Drive
Clifton Moor
York
England
YO30 4XE

Tel: +44 (0) 1904 692723
Fax: +44 (0) 1904 690385

E-Mail: sales@yorksurvey.co.uk



Wireless Digital Raingauge

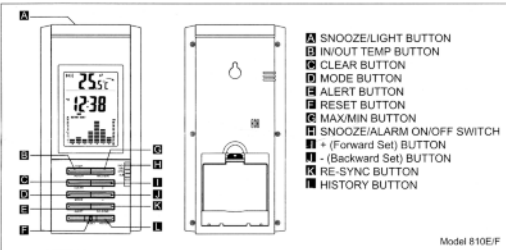


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Operating Instructions

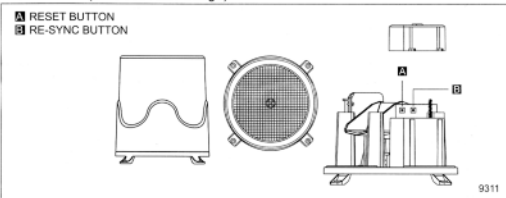
INSTRUCTION MANUAL

Locations of Control Main Unit (Receiver)



Model 810E/F

Remote Unit (Wireless Rain Gauge)



9311

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

FEATURES AND SPECIFICATIONS

Base Unit

- RF rainfall and temperature measurement
- Rainfall history tracking: last hour, last 24 hours, daily, weekly and monthly
- Bar chart display for rainfall history
- Daily Min. / Max. rainfall tracking with auto daily clearing
- Indoor / RF outdoor temperature, auto scroll
- Indoor operation temperature range: 32°F to 122°F (0°C to 50°C); tolerance +/- 2°F (1.1°C) for 32°F to 104°F (0°C to 40°C)
- °C/°F selectable
- Memory function to recall Min./Max. temperature readings
- Temperature trend arrow indicates rising, falling or constant temperature
- Programmable, audible high / low temperature alert
- 12 or 24 hour selectable clock
- Calendar Alarm clock with day of the week display
- Low battery indicator for base station and rain collector
- Requires 4 AAA batteries

Rain Collector / Remote Sensor

- Self-emptying, waterproof with oversized collection area
- Wide base to minimize tip-over
- Transmission range: 100 ft / 30.5m. (range may be shorter based on interference present)
- Transmission frequency: 433MHz
- Outdoor operation temperature range: -4°F to 140°F (-20°C to 60°C); tolerance +/- 2°F (1.1°C) for 32°F to 104°F (0°C to 40°C)
- Requires 2 AA batteries

BATTERY INSTALLATION AND ACTIVATION

Warning:

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

For maximum performance in normal conditions we recommend using good quality alkaline batteries. When temperatures are below 32°F(0°C), alkaline batteries can lose power resulting in a loss of remote transmission if you reside in an area that experiences frequent temperatures below freezing, we recommend using lithium batteries to minimize the loss of transmission.

SET UP PROCEDURE

Battery installation of Base Unit

- Open the battery door of the base unit and insert 4pcs AAA batteries according to the polarity markings. Replace the battery door.
- Set the clock and calendar as follows.

Setting the Calendar, Clock, °C / °F

- When either the clock or calendar is being displayed, press and hold the MODE button for 3-4 seconds until the year display is flashing.
- Press + or - to set the year.
- Press MODE to display the date.
- Press + or - to set the month and day.
- Press MODE to display time.
- Press + or - to set the time.
- Press MODE and the display will show 12 hr.
- Press + or - to set your clock to 12 hr or 24 hr time format.
- Press MODE and the temperature field will be flashing.
- Press + or - to select °F or °C format.
- Press MODE to lock in the settings.

Note: If you set the time and date after initial activation, the accuracy of the rainfall history data may be affected. Reset the unit to clear the history by pressing the RESET button then set your desired time and date.

- Press the RE-SYNC button.
- Position the Rain Collector/Remote Sensor close to the base unit.
- Open the battery door on the bottom of the remote sensor and insert (2) AA batteries according to the polarity markings. Replace the battery door.
- When the OUT temperature is shown on the display of the base unit, synchronization between the base unit and the remote sensor is completed.

Battery installation of Rain Collector Unit

- Unscrew the battery door at the bottom of the rain collector unit by coins and insert (2) AA batteries according to the polarity markings.
- Screw up the battery door.
- Open the Rain collector unit outer case by pressing the hook.
- Remove the tape from the bucket inside so it move freely.
- Close the outer case.

Note : Make sure the battery door is securely screwed up to prevent ingress of water.

POWER UP SYNCHRONIZATION

The base unit will search for the RF signal from the rain collector for 6 minutes after reset or after batteries are inserted. When the temperature display on the main unit shows the OUT temperature, synchronization between the base unit and remote unit is completed.

The top, left of the base unit display will show the icon to indicate signal transmission. If the OUT temperature does not show on the display within 6 minutes after reset, press the RE-SYNC button and the main unit will search for the RF signal for another 6 minutes. If the base unit still fails to show the out temperature, refer to the LOSING SYNCHRONIZATION section.

LOCATING THE BASE UNIT AND REMOTE SENSOR

- Choose a suitable place for the base unit and remote outdoor sensor, within the transmission distance.
- Place the base unit near a window, but away from direct sunlight or sources of heat or air conditioning to ensure accurate temperature readings.
- The location you choose is critical for maximizing the transmission range. The remote sensor is designed to transmit unimpeded 80 to 100ft (24.4 to 30.5m). Transmitting through walls, metal doors and metal framed windows may reduce the transmission range. To optimize the transmission distance, the remote unit should be positioned in a location that minimizes these obstructions. Other interference from electrical sources such as home security systems, wireless doorbells and wireless home entertainment equipment may interrupt the transmission signal temporarily.

Notes:

- The outdoor rain collector must be placed on a level, horizontal surface for accurate rainfall measurement.
- Warning: Ice will affect the accuracy of rainfall readings and will damage the internal mechanism of the rain collector. In temperatures below freezing the collector can remain outdoors for temperature data transmission, but the unit must be placed in a protected area to prevent ice damage.

INDOOR AND OUTDOOR TEMPERATURE

- The indoor temperature is shown after activation until the first outdoor temperature signal is received. The display will then change to the outdoor temperature reading.
- Press the IN-OUT TEMP button to toggle between indoor and outdoor temperature.
- To activate Auto Scroll mode, press and hold the IN-OUT TEMP button for 3-4 seconds. Double curved arrows will show at the top of the LCD display and the unit will automatically toggle between indoor and outdoor temperature. Press and hold the IN-OUT TEMP button for 3-4 seconds to de-activate Auto-Scroll mode.
- The temperature trend arrow which is located directly above the temperature reading will indicate the trend of indoor and outdoor temperatures during the last three minutes.

TEMPERATURE ALERT

When either the indoor or outdoor temperature exceeds the upper or lower pre-set limits, the alarm will sound for five seconds. It will be accompanied by a flashing alert icon and flashing arrow to show that the temperature has reached the upper or lower limit. The audible alert will sound for five seconds every minute.

Setting the Temperature Alert

- When setting the alert temperatures, the display will change in increments of 1.8°F or 1.0°C.
- Press and hold the ALERT button until the alert icon, up arrow and IN icon are shown on the display and the alert temperature is flashing.
- Press + or - to set the desired indoor alert temperature upper limit.
- Press ALERT and the down arrow will be displayed. Press + or - to set the desired indoor alert temperature lower limit.
- Press ALERT and the up arrow and OUT icon will be displayed. Press + or - to set the desired outdoor alert temperature upper limit.
- Press ALERT and the down arrow will be displayed. Press + or - to set the desired outdoor alert temperature lower limit.
- Press ALERT to confirm the settings and exit the alert temperature setting mode.

Activating the Temperature Alert

- After you have entered all your temperature alert limits, press ALERT and the system will be activated. The alert icon will be shown on the display.

De-activating the Temperature Alert

- Press the ALERT button when either the indoor or outdoor temperature has exceeded the limit. The audible alert will stop and the alert icon will stop flashing. The arrow icon will continue to flash to indicate the out of range condition.
- The alert will sound again if the indoor or outdoor temperature falls back within the upper or lower limit and then exceeds the upper or lower limit again.
- To turn off the alert permanently, press ALERT until the alert icon is no longer displayed.

VIEWING CLOCK, CALENDAR, RAINFALL RATE AND TOTAL RAINFALL

- Press the MODE button to toggle the main display between time, date, rainfall rate and total rainfall.
- The rainfall reading is accumulative data since the last press of either the RESET or CLEAR button. To clear the rainfall reading, press the CLEAR button when the rainfall reading is shown on the display.

Setting Alarm Time

- Press + or - anytime make the unit show the alarm time.
- Press again + or - will change the alarm time by one, press and hold the + or - button will make the alarm time change in high speed.

Activate Alarm

- Slide the SNZ/ALM ON/ALM OFF switch to ON position will active the alarm function.
- The alarm will sound for 1 minute when the time reach the alarm time.
- Press SNOOZE/LIGHT will stop the alarm sound and the unit will give the alarm sound again next day at the same time.

Activate Snooze Alarm

- Slide the SNZ/ALM ON/ALM OFF switch to SNZ position will active the snooze alarm function.
- The alarm will sound for 1 minute when the time reach the alarm time.
- Press SNOOZE/LIGHT will stop the alarm sound and the unit will give the alarm sound again 5 minutes later and repeat for 2 times.
- Slide the SNZ/ALM ON/ALM OFF switch to OFF position to turn the snooze alarm function off.

RAIN FALL HISTORY

This unit has a large capacity memory that can store and display

- Last hour rain fall
- Last 24 hours total rain fall
- Daily rain fall (Up to last six days as well as current day)
- Weekly rain fall (Up to last six weeks as well as current week)
- Monthly rain fall (Up to last six months as well as current month)

The Daily Rainfall history bar chart is set as the default display after activation.

To view the rainfall history for other time periods

- Press HISTORY once to display the weekly rainfall
- Press again to display monthly
- Press again to display last hour (will display for 5 seconds only)
- Press again to display last 24 hours (will display for 5 seconds only)
- Press again to return to daily

More detailed daily, weekly and monthly history data are available. Press and hold the HISTORY button when your desire corresponding history data are shown. The "0" (Current) bar will show up and the precise data will be shown on the time display. Press + or - and you can scroll through the daily, weekly or monthly prior data.

Note: On the bar chart display, the "0" represents the current period. -1, -2, etc. indicate the prior periods.

MAXIMUM AND MINIMUM RECORDS

Temperature Maximum and Minimum

The highest and lowest record of indoor temperature, outdoor temperature and rainfall are stored automatically after you activate the base unit. You can recall the records at any time by pressing the MAX/MIN button. With each press of the button, in sequence the display will show; indoor maximum reached, indoor minimum reached, outdoor maximum, outdoor minimum, rainfall maximum and rainfall minimum. The corresponding MAX or MIN icon will be displayed each time. To clear any maximum or minimum record, press the CLEAR button when the appropriate record is shown on the display.

Rainfall Maximum and Minimum

The rainfall maximum and minimum record is a daily record which counts from 12:00am to 11:59pm every day.

Aside from the automatic daily clear, the rainfall maximum or minimum record can be cleared by pressing the CLEAR button when the appropriate record is shown on the display.

LOSING SYNCHRONIZATION

If the main unit displayed a proper OUT temperature and rainfall rate, but now displays blanks "--,--°C" or "--,--mm/hr", the unit may have lost synchronization. If this occurs, press the RE-SYNC button of the main unit. The base unit will search for the RF signal for 6 minutes and will re-initialize synchronization with the remote unit.

SPECIFICATION

Temperature Measuring Range

Receiver : -20°C to +70°C with 0.1°C resolution
-4°F to 158°F with 0.2°F resolution
Transmitter : -40°C to +70°C with 0.1°C resolution
-40°F to 158°F with 0.2°F resolution

Temperature Checking Interval

Receiver : 32 seconds
Transmitter : 32 seconds

Transmission distance : maximum 30m(100feet) in open field, depending upon surrounding structures, mounting location and possible interfering sources.

Power Source (Alkaline batteries recommended)

Receiver : 4pcs AAA batteries, 1.5V battery
Transmitter : 2pcs AA batteries, 1.5V battery

Dimension (L x W x H)

Receiver : 177mm x 85mm x 29mm
Transmitter : 138mm x 121mm x 121mm

810E/F+9311