RADIO CONTROLLED PROJECTOR CLOCK WITH WEATHER FORECAST

User's instructions

Thank you for your purchase of this Radio Controlled weather station clock. The utmost care has gone into the design and manufacture of your clock. This instruction is used for DCF & MSF & WWVB versions, and the LCD display and temperature used US version for reference. So please read the instruction carefully according to the version you purchased and keep the manual well for future reference.

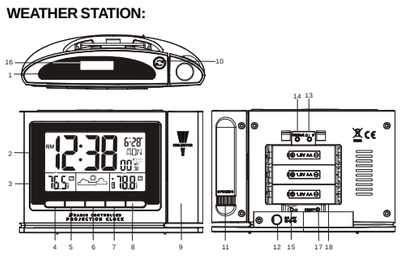
The multifunctional weather station is equipped with many functions providing thorough weather information to you. The receiver unit has a clear, easy-to-read display that shows weather forecast, minimum/maximum indoor and outdoor temperature, as well as time and date. It is able to receive and display readings from up to 3 remote sensors.

The 433 MHz technology means no wire installation is required and you can place the sensors anywhere you like.

With radio controlled function, the current time and date are automatically synchronized with the time signal transmitted from Germany (DCF77) / UK (MSF) / USA (WWVB) (It depends on which version you purchase).

MAIN FEATURES

WEATHER STATION:



1. SNOOZE/LIGHT key
   - Turn on the projector and backlight for 5 seconds.
   - Stop the current alarm when it is sounding and enter into snooze mode.

2 .CALENDAR AND TIME WINDOW
   - Displays normal time, alarm time, date and day of the week.

3. WEATHER INDICATOR WINDOW
   - Shows indoor/outdoor temperature and the weather forecast for the forthcoming 12 to 24 hours.

4. TIME key
   - Press it to switch between Month/Date and alarm time mode.
   - Press and hold it for 2 seconds to enter normal time setting.
   - In normal time setting, press it to step the setting items.

5. ALARM key
   - In normal time display, press it to turn on/off ALM1 & ALM2.
   - In ALM1 / ALM2 mode, press it to turn on/off alarm and pre-alarm function.

   - Press it to stop the current alarm when the bell is ringing and turn off the alarm and snooze function.
   - In alarm time mode, press and hold it for 2 seconds to enter alarm time setting.
   - In alarm time setting, press it to step the setting items.

6. UP key
   - In setting mode, press it to increase the setting values.
   - In normal time mode, press it to switch among Channel 1, 2 and 3.

7. DOWN key
   - In setting mode, press it to decrease the setting values.
   - In normal time mode, press it to switch among 12/24 hour format.

8. MAX/MIN key
   - Press it to check the minimum and maximum temperature records.

9. PROJECTOR
   - Project the time and weather forecast indicator.

10. REVERSE key
   - Press it to reverse the projected date.

11. FOCUS knob
   - Adjust the quality of the projected date.

12. DC JACK
   - To power the unit.

13. °C/°F key(Please note the default display in °C for UK/ DE version,in °F for US version)
   - Press it to switch between Celsius and Fahrenheit.

14. RECEIVE key
   - Press it to receive the RC signal for reception testing.

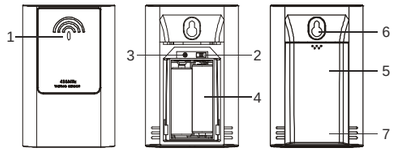
15. NIGHT LIGHT FUNCTION ON/OFF switch
   - Slide it to turn on/off the night light function.

16. NIGHT LIGHT SENSOR
   - Turn on the function, the night light will turn on automatically in dark environment.

17. RESET key
   - Press it to reset all values to default values.
   - In case of malfunction, the unit may be required to reset.

18. BATTERY COMPARTMENT
   - Accommodates 3 x AA size batteries (alkaline batteries recommended).

TRANSMITTER:



1. LED indicator
   - Flashes when the remote unit transmits a reading.
2. CHANNEL SLIDE SWITCH
   - Assign the transmitter to Channel 1, 2 or 3.

3. RESET
   - Press it to restart the transmitter.

4. BATTERY COMPARTMENT
   - Accommodates 2 x AA size batteries.

5. BATTERY DOOR

6. WALL-MOUNTING HOLDER:
   - Use it to support the transmitter on the wall.

7. TABLE STAND
   - Use it to stand the transmitter on the desktop.

BEFORE USING THE TRANSMITTER

1. Remove the battery door.
2. Insert 2 x AA size batteries into the battery compartment. Make sure you insert them the right way according to the polarity information marked on the battery compartment.
3. Replace the battery door.

Note:
1. Once the channel is assigned to one transmitter, you can only change it by removing the batteries or resetting the unit.
2. Avoid placing the transmitter in direct sunlight, rain or snow.

WEATHER STATION

1. If using the DC Adaptor to power the clock, plug the adaptor into the DC jack. If using battery, remove the battery door and insert 3 x AA batteries into the battery compartment. Make sure you insert the batteries the right way according to the polarity information marked on the battery compartment.
2. Replace the battery door.
3. Press the "RESET" key to re-start the clock and it will synchronize the channels of transmitter automatically.

Note:
1.The building material and the position of the receiver and transmitter affect the effective range. So try various locations to obtain the best result.
2.Place the units away from metal objects and electrical appliances to minimize the interference. Position the receiver and transmitter within the effective transmission range: 30m in usual circumstances.
3. You may use the batteries and adaptor togother to power the unit that the batteries can power the clock when the adaptor powered off.

RECEPTION OF RADIO CONTROLLED TIME SIGNAL

The time and date are radio-controlled. The current time and date are automatically synchronized with the time signal transmitted from Germany (DCF 77)/U.K. (MSF)/ USA(WWVB). When used for the first time (after inserting the batteries or pressing the "RESET" key), the clock will start to receive the RC signal in 5 minutes with the signal strength indicator flashing.

SIGNAL STRENGTH INDICATOR

The signal indicator displays signal strength in 4 levels. Wave segment flashing means time signals are being received. The signal quality could be classified into four types:

No signal quality — Weak signal quality

Acceptable signal quality — Excellent signal quality

Note:
1. Everyday the unit will automatically search for the time signal at 2:00, 8:00, 14:00 and 20:00.
2. Always place the unit away from interfering sources such as TV set, computer, etc.
3. Avoid placing the unit on or next to metal plate.
4. Closed area such as airport, basement, tower block or factory is not recommended.
5. Do not start reception on a moving article such as vehicle or train.

MANUAL TIME SETTING

If you are out of the reach of the Radio Controlled Transmitter or if the reception is not reachable, the time can be set manually. As soon as the transmitter is received again, the clock will automatically synchronize with received time.

For UK or DE version only:
1. In normal time mode, press and hold "TIME" key for 2 seconds until the Year digit flashes.
2. Press "UP" or "DOWN" key to change its value.
3. Press "TIME" key again, Month digit flashes, press "UP" or "DOWN" key to change its value.
4. Repeat the above operation to set the time in this order:Year > Month > Date > Hour > Minute > Second > Day Language .
5. Press "TIME" key to save and exit the setting or let it exit automatically 30 seconds later without pressing any key.

For US version only:
1. In normal time mode, press and hold "TIME" key for 2 seconds until the Time zone map flashes.
2. Press "UP" or "DOWN" key to select the proper time zone.
3. Press "TIME" key again, Year digit flashes, press "UP" or "DOWN" key to change its value.
4. Repeat the above operation to set the time in this order: Time zone map > Year > Month > Date > DST ON/OFF > Hour > Minute > Second > Day Language.
5. Press "TIME" key to save and exit the setting or let it exit automatically 30 seconds later without pressing any key.

ALARM AND SNOOZE SETTING

1. In normal time mode, press "TIME" key to select the ALM1 or ALM2.
2. In ALM1/ALM2 mode, press and hold "ALARM" key for 2 seconds until alarm Hour digit flashes.
3. Press "UP" or "DOWN" key to change the value.
4. Repeat the above operations to set time in this order: Hour > Minute.
5. Press "ALARM" key to save and exit the setting, or let it exit automatically 30 seconds later without pressing any key.

Note:
1. The alarm will be automatically turned on when you set the alarm time with the icon "1" or "2" displayed.
2. The dual-alarm (ALM1&ALM2) design of this unit will provide you with more convenience, and you can set two-alarm time if needed.

USING ALARM & TEMPERATURE PRE-ALARM FUNCTIONS

1. Set the alarm time as described in the previous section.
2. In normal time mode,press “ALARM ” key once to turn on ALM1, press it twice to turn on ALM2, press it thrice to turn on both ALM1 and ALM2, with the bell icons display on the LCD. Press it again to turn off both ALM1 and ALM2, with the icons disappear.
3. In ALM1/ALM2 mode, press alarm key once to turn on ALM1/ALM2, press it twice to turn on pre-alarm function, with the icon “❄” displays on the LCD. Press it again to turn off both alarm and pre-alarm functions, with the icons disappear.

Note:
1. To turn on temperature pre-alarm, ALARM must be on.
2. The temperature pre-alarm can sound 30 minutes earlier than the alarm only when the outdoor temperature is below -3°C (26°F).
3. If no key is pressed during the alarm period, the alarm will turn off automatically. You can also press “SNOOZE/LIGHT” key to stop the current alarm and enter the snooze mode. With the bell icon keep flashing.
4. Once the snooze function is turned on, the 4-step crescendo alarm will sound in 5-minute interval. The alarm duration is 120 seconds.
5. The snooze function won’t stop unless you press “ALARM” key to turn off the alarm and snooze function.

READING INDOOR/OUTDOOR TEMPERATURE RECORDS

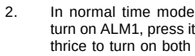
Change the temperature unit to °C for Celsius or °F for Fahrenheit by pressing “°C/°F” key.

Note:
1. If no signals are received or the transmission is interfered, “—” will appear on the LCD.
2. Relocated the clock or transmitter in other positions and make sure the transmission is within the effective range of 30m approx.
3. After several trails in vain, please reset the clock thoroughly. Try out where your multifunctional alarm clock receives the signals best.

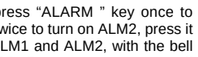
CHECKING AND DELETING MAX/MIN TEMPERATURE RECORDS

1. Press “MAX/MIN” key once to check the maximum temperature records. Press it twice to check the minimum records. Press it again to exit.
2. Press and hold “MAX/MIN” for 3 seconds to delete the maximum and minimum temperature records, with “beep” tone.

MAX temperature record



MIN temperature record



VIEWING THE CHANNEL

The default channel is Channel 1. In normal time mode, press “UP” key to view the channels from 1 to 3. Besides, the channels can automatically switch by pressing and holding the “UP” key for 2 seconds, with “beep” tone.

TEMPERATURE TREND

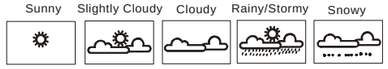
The temperature-trend indicator shows the trends of changes

in the forthcoming few minutes. Arrows indicate a rising, steady or falling trend.

Arrow indicator	↗	→	↘
Pressure trend	Rising	Steady	Falling

WEATHER FORECAST INDICATOR

The built-in barometer can notice atmospheric pressure changes. Based on the data collected, it can predict the weather condition in the forthcoming 24 hours.



Note:
1. The accuracy of a general pressure-based weather forecast is about 70% to 75%.
2. The weather forecast is meant for next 24 hours, it may not necessarily reflect the current situation.
3. The “Snowy” weather forecast is not based on the atmosphere pressure, but based on the outdoor temperature. When the outdoor temperature is below -3°C (26°F), the “Snowy” weather indicator will be displayed on the LCD.
4. The “Rainy” and “Stormy” icons are different only in the dropping frequency of the rain. The rain dropping frequency in the “Stormy” icon is faster than that in the “Rainy” icon.

USING THE PROJECTOR

Press the SNOOZE/LIGHT key to turn the projector on, rotate the projector to project the light beam to a dark background within 1-3 meters, the projected data will be displayed on the dark background as following diagram.

Note:
1. Press the “SNOOZE/LIGHT” key once, back light and the projection last for 5 seconds, then press the “ ” key will reverse the projected data.
2. If power the unit with batteries and adaptor togother, the projector will be continuous on.
3. The rotate angle of the projector is ±90º.
4. Adjust & tune the focus of the projection by adjusting the “FOCUS” knob.

LOW BATTERY INDICATOR

When the LCD becomes dim, replace with 3 x AA size batteries at once; while if the low battery indicator “✲” displays in the outdoor temperature window, it indicates that the battery power of the transmitter is not enough, and you should replace with 2 x AA size batteries at once.

Transmitter’s low battery indicator

Note:
Attention! Please dispose of used unit or batteries in an ecologically safe manner.

SPECIFICATION

Main unit

Operating range:	-5°C~50°C(23° F~122°F)
Resolution:	0.1°C/°F (above -10°C/14°F) 1°C/°F (below -10°C/14°F)
Radio controlled signal:	WWVB/DCF/MSF

REMOTE SENSOR

Operating range:	-20°C~60°C(-4°F~140°F)
Resolution:	0.1°C/°F (above -10°C/14°F) 1°C/°F (below -10°C/14°F)
RF transmission frequency:	433MHz
No. of remote sensor:	up to 3 units
RF transmission range:	maximum 30 meters
Temperature sensing cycle:	around 60-64 seconds

POWER

Main unit:	4.5V, use 3 x AA 1.5V
Remote sensor:	3V, use 2 x AA 1.5V

DIMENSION

Main unit:	136(W) x 91(H) x 40(D) mm
Remote sensor:	65(W) x 115(H) x 20(D) mm

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.

However, 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.

Responsible Party in USA

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