RADIO CONTROLLED WIRELESS WEATHER STATION
MODEL C8243
USER'S INSTRUCTIONS

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.

Trade Name: TRG
Model Number: 90210
TRG Group
2047 Westport Center Drive
St. Lovis, Mo 63146, U.S.A.
Tel: 1-314-6920717

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 the weather forecast, minimum/maximum indoor and outdoor temperature,moon phase, as well as the time and date. It is able to receive and display readings from the 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). The signal can cover a distance of about 1500 km from the related transmitter.

MAIN FEATURES:

WEATHER STATION:

1 — SNOOZE/LIGHT
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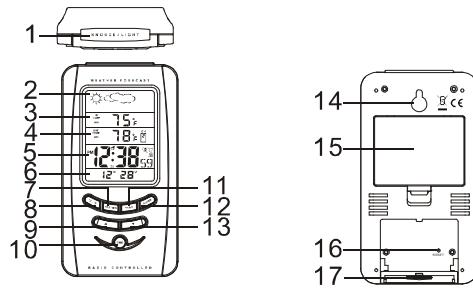
1. SNOOZE / LIGHT:
- Press it once to turn on the backlight for 5 seconds.
- Press it to stop the alarm when it is sounding.

2. MOON PHASE AND WEATHER INDICATOR WINDOW:
- Shows the moon phase and weather forecast indicators.

3. INDOOR TEMPERATURE WINDOW:
- Shows the current indoor temperature data and the maximum or minimum recorded indoor temperature.

Dimension

Main unit: 76(W) x 142(H) x 29(D) mm

Remote sensor: 40(W) x 128(H) x 23.5(D) mm

This device complies with Part 15 of the FCC Rules. Operations 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

RF transmission frequency:	433MHz
No. of remote unit:	up to 3 units
RF transmission range:	maximum 30 meters
Temperature sensing cycle:	around 60 ~ 64 seconds
Moon phase scanner range:	from year 2000 to 2050
Radio controlled signal:	WWVB/DCF/MSF

Power

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

Weight

Main unit:	225gm
Remote sensor:	106gm

4. OUTDOOR TEMPERATURE WINDOW:
- Shows the current outdoor temperature data and the maximum or minimum recorded outdoor temperature.

5. CLOCK WINDOW:
- Displays the time, day of the week, signal quality indicator and daylight savings time (DST) indicator.

6. CALENDAR WINDOW:
- Displays the month, date and year.

7. MAX / MIN:
- Press it to check the minimum and maximum temperature records.
- Press and hold it for 3 seconds to delete the minimum and maximum temperature records.

8. °C/°F:
- In normal time mode or alarm time mode, press it to switch between Celsius and Fahrenheit.
- Press and hold it for 3 seconds to receive the RC signal for reception testing.

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

- In alarm time mode, press it to turn on/off the Alarm and Snooze.

10. TIME:
- In normal time mode or alarm time mode, press and hold it for 2 seconds to enter the normal time setting mode.

11. YEAR:
- Press it to switch between Date/Month and Year display.

12. ALARM:
- Press it to stop the current alarm when the bell is ringing and turn off the snooze function.
- Press it to switch between Date/Month and alarm time mode.
- In normal time mode, press it to enter the alarm time mode.
- Press and hold it for 2 seconds to enter the alarm time setting mode.

13. DOWN:
- In setting mode, press it to decrease the setting values.
- In normal time mode, press it to switch between Second and Day of the week display.
- In alarm time mode, press it to select the time zone (only for WWVB version).

14. WALL-MOUNTING HOLDER:
- Use it to support the main unit on the wall.
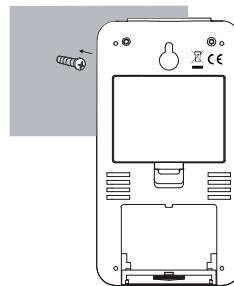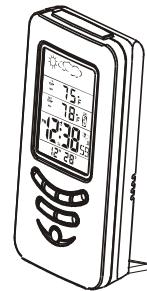
SPECIFICATIONS

MAIN UNIT

Recommended operating range: 0 °C to 45 °C
32 °F to 113 °F

Resolution: 0.1°C/1°F(above 0°C/32°F)
1°C/1°F (below 0°C/32°F)

REMOTE SENSOR

Recommended operating range: -20 °C to 55 °C
-4 °F to 131 °F

Resolution: 0.1°C/1°F(above 0°C/32°F)
1°C/1°F (below 0°C/32°F)

transmitter into the stand on the wall. Besides, you can place it on the desktop by its table stand.

For the receiver, place the screw on the desired wall and hang the receiver by the recessed hole at the back of the clock or just simply place it on the desktop by the table stand. You can use the table stand according to the following steps:

1. Slide the table stand downwards to separate it from the knob.
2. Revolve the separated table stand outwards for 90 degrees.
3. To fix the table stand, push it into the knob inside.
4. When you want to fix the receiver on the wall, you can do the opposite operation to put back the table stand of it.
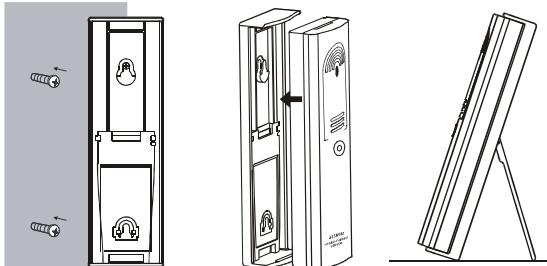

15. BATTERY DOOR:

16. RESET:
- Press it to set all values to default values.
- In case of mal-function, the unit may be required to reset.

17. TABLE STAND:
- Use it to stand the clock on the desktop.

TRANSMITTER:
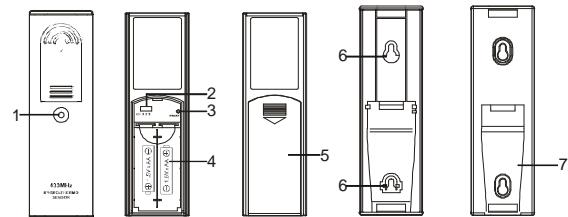
1. LED indicator:
- Flashes when the remote unit transmits a reading.

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 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 transmitter from the stand and open the battery door.
2.   Insert 2 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.   Close 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.

BATTERY REPLACEMENT

When the LCD becomes dim, replace with 3 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 AA size batteries at once.

Transmitter's low battery indicator

(shows on the main unit)

NOTE:

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

USING THE TABLE STAND OR WALL-MOUNTING STAND

The transmitter and receiver have both the desktop and wall-mounting structures.For the transmitter, fix the separate wall-mounting stand outside in the area protected from direct rain by the screw. Once the stand is mounted, place the

3. After several trials in vain, please reset the clock thoroughly. Try out where your multifunctional alarm clock receives the signals best.

CHECKING AND DELETING MAX. /MIN. TEMPERATURE REOCRDS

1. Press the "MAX/MIN" key once to check the maximum temperature record. Press it twice to check the minimum record. Press it again to exit.
2. Press and hold the "MAX/MIN" key for 3 seconds to delete the maximum and minimum temperature records.

MAX.temperature record

MIN.temperature record

IN TEMP
MAX
103 °F

OUT TEMP
MAX
98 °F CH 2

IN TEMP
MIN
39 °F

OUT TEMP
MIN
28 °F CH 2
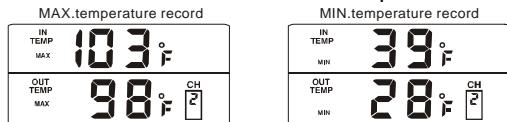
ABOUT THE MOON PHASE:

The unit has 8 different moon phases. It will change according to the lunar calendar.

New moon   Waxing crescent   First quarter   Waxing gibbous

○   )   ◗   ●

Full moon   Waning gibbous   Last quarter   Waning crescent

●   ◖   ◀   ☾
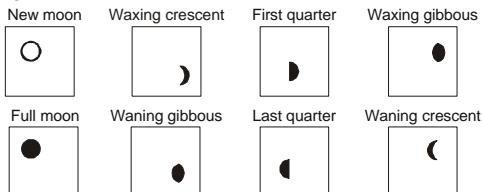
WEATHER STATION:

1. Remove the battery door and insert 3 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. Close 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: 30 meters in usual circumstances.

ABOUT THE WEATHER INDICATOR

The built-in barometer can notice atmospheric pressure changes. Based on the data collected, it can predict the weather conditions in the forthcoming 12-24 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 12 to 24 hours. It may not necessarily reflect the current situation.
3. The "Sunny" icon can only appear from 6 AM to 8 PM; while if the weather is Cloudy/Rainy/Stormy during this period, the "Sunny" icon may not appear.
4. The "Moon phase & Star" icon can only appear from 8 PM to 6 AM; while if the weather is Cloudy/Rainy/Stormy during this period, it may not appear either.
5. 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.
6. 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, the "Snowy" weather indicator will display on the LCD.

Sunny	Slightly cloudy	Cloudy
☼	☼⌒	⌒

Rainy	Stormy	Snowy
☁	☁	☁
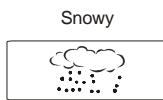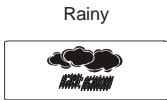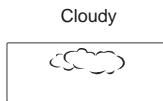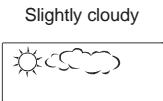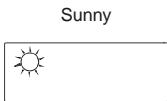
4. Pressing the "SNOOZE / LIGHT" key can stop the current alarm and enter the Snooze mode; while pressing the "ALARM" key can not only stop the alarm but also turn off the Snooze function.

VIEWING THE CHANNEL

The default channel is Channel 1. In normal time mode, press the "UP" key to view the channel from 1 to 3.

HOW TO READ INDOOR AND OUTDOOR TEMPERATURE RECORDS

Change the temperature unit to °C for Celsius or °F for Fahrenheit by pressing the "°C/°F" key.
If the readings go above or below the operating range, the receiver will keep showing the last record within the operation range.

NOTE:

1. If no signals are received or the transmission is interfered, "---" will appear on the LCD.
2. Relocate the clock or the transmitter in other positions and make sure the transmission is within the effective range of 30 meters approx.

ALARM AND SNOOZE SETTING

1. In normal time mode, press the "ALARM" key to enter the alarm time mode.
2. In alarm time mode, press the "UP" key to turn on the Alarm and Snooze with the bell icon " ◁ " and snooze icon " Zz " displayed together on the LCD.
3. In alarm time mode, press and hold the "ALARM" key for 2 seconds to enter the alarm time setting mode until the HOUR digit flashes.
4. Press the "UP" or "DOWN" key to change the value of the flashing HOUR digit.
5. Repeat the above operation to set the alarm Minute.
6. After you complete all settings, press the "ALARM" key to exit the setting mode, or let it exit automatically 30 seconds later without pressing any key.

NOTE:

1. The alarm will be automatically turned on when setting the alarm time.
2. Once the Snooze is turned on, the 4-step crescendo alarm will sound 4 times in 5-minute interval. The alarm duration is 60 seconds.
3. When the alarm is sounding, the backlight will be on for 5 seconds.

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) / UK (MSF) / USA (WWVB) provided the device is within about 1500 km range of the transmitter.
When used for the first time (after inserting the batteries or pressing the "RESET" key), the clock starts receiving the time signals and the reception display flashes.

SIGNAL QUALITY INDICATOR

If the signal indicator flashes once in one second, it indicates that the signal quality is poor; while if the signal indicator flashes twice in one second, it means that the signal quality is strong.

NOTE:

1. The unit will automatically search for the time signal at 2:00, 8:00, 14:00 and 20:00 each day.
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 plates.
4. Closed areas such as airport, basement, tower block or factory are not recommended.

5. Do not start reception on moving articles such as vehicles or trains.

DAYLIGHT SAVINGS TIME (DST)

The clock has been programmed automatically to switch when the daylight savings time is in effect. Your clock will show "DST" during the summer.

TIME ZONE SETTING (WWVB version only)

The default time zone is PACIFIC time zone. If your location is not in the Pacific time zone, set the time zone as follows:
1. In normal time mode, press the "ALARM" key to enter the alarm time mode.
2. In alarm time mode, press the "DOWN" key to select the proper time zone: P=Pacific M=Mountain C=Central E=Eastern
3. After you complete the setting, press the "TIME" key to exit the setting mode, or let it exit automatically 30 seconds later without pressing any key.

MANUAL TIME AND CALENDAR 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 signal of transmitter is received again, the clock will automatically synchronize with the exact time.
1. In normal time mode, press and hold the "TIME" key for 2 seconds until the HOUR digit flashes.
2. Press the "UP" or "DOWN" key to change the value of the flashing HOUR digit.
3. Repeat the above operation to set the time and calendar in this order: Hour > Minute > Second > 12/24 Hr > Year > Month > Date > Day language.
4. The 5 languages weekday settings are represented by the below abbreviations: GB= English FR= French DE=German ES= Spanish IT= Italian

English	Germany	French	Spanish	Italian
SUN	SON	DIM	DOM	DOM
MON	MON	LUN	LUN	LUN
TUE	DIE	MAR	MAR	MAR
WED	MIT	MER	MIE	MER
THU	DON	JEU	JUE	GIO
FRI	FRE	VEN	VIE	VEN
SAT	SAM	SAM	SAB	SAB

5. After you complete all settings, press the "TIME" key to exit the setting mode, or let it exit automatically 30 seconds later without pressing any key.