Ambient Weather RC-8300 ClearView Radio Controlled Travel Alarm Clock with Indoor Temperature User Manual

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1. Introduction

Thank you for your purchase of the Ambient Weather RC-8300 ClearView Radio Controlled Travel Alarm Clock with Indoor Temperature. The following user guide provides step by step instructions for installation, operation and troubleshooting. To download the latest full sized manual and additional troubleshooting tips, please visit:
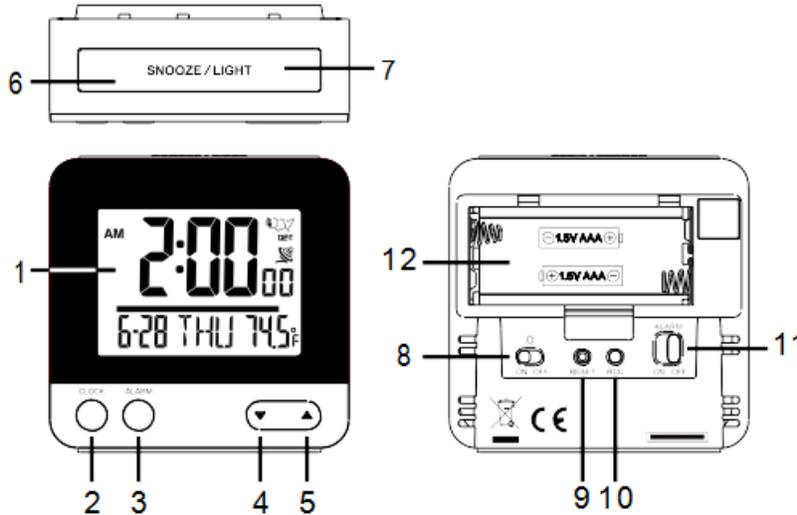
http://ambientweather.wikispaces.com/rc8300

2. Getting Started

2.1 Display Features

Figure 1

No	Description	No	Description
1	LCD display	7	Light sensor
2	CLOCK button. Sets and displays clock date and time.	8	NIGHT-LIGHT ON/OFF slide switch
3	ALARM button. Sets and displays alarm clock time.	9	RESET key
4	DOWN button	10	RCC key - Press to switch between Celsius and Fahrenheit. - Press and hold for 3 seconds to force the Radio Controlled Clock search.
5	UP button	11	ALARM ON / OFF slide switch
6	SNOOZE/LIGHT button	12	Battery compartment

2.2 Parts List

QTY	Item
1	Clock Frame Dimensions (LxWxH): 2.5" L x 2.5"H x 1.0"D
1	User Manual

2.3 Powering Up

1. Remove the battery door on the top of the clock and insert 2 new AAA batteries, according to the polarity information marked on the battery compartment, and replace the battery door.
2. Once the batteries are inserted, all of the LCD segments will light up briefly before entering the radio controlled clock (RCC) reception mode.
3. The RCC clock will clock 2:00am and will attempt to synchronize with the RCC.

   The clock will automatically search for the time signal at 2:00, 8:00, 14:00 (2pm) and 20:00 (8pm).

Note: If no display is present after powering up the clock, press the reset button on the back of the clock with an open ended paper clip or sharp tool.

2.3.1 Radio Controlled Clock (RCC)

Eight seconds after power up, the clock begin radio controlled clock (RCC) reception and the RCC search icon ⚡ will turn on. The RCC will continue to search for six minutes. It will try again every two hours.
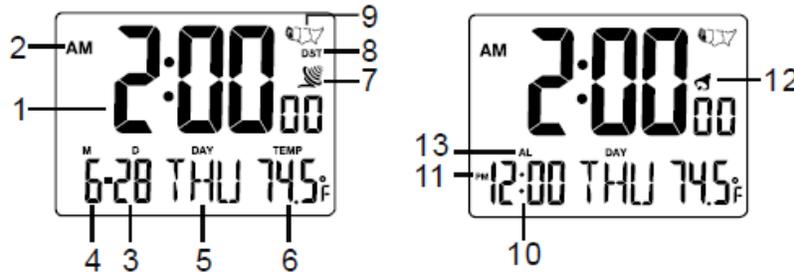
RCC Icon	Description	RCC Icon	Description
⚡	No signal	⚡	Acceptable signal
⚡ ⚡	Weak signal (flashes between two icons). Cannot be interpreted.	⚡	Excellent signal

Figure 2

If the time is incorrect by increments of an hour, or does not change on your radio controlled clock (RCC):

1. **Be patient. Wait at least one week before contacting Ambient Weather.** The RCC is a shortwave signal originating near Fort Collins, Colorado, and travels thousands of miles by bouncing off the ionosphere. The signal is better at night due to solar interference during the daytime. The farther you are from Colorado, the weaker the signal. Urban environments can also affect the signal strength.
2. **Locate the Clock at night near a window or outer wall, and away from other radiating sources, like wireless routers or TVs.** This will insure the best reception possible.
3. **If running on battery power only, test and replace the batteries in the clock if required.** Low batteries are often the cause for weak reception.
4. **Check your Time Zone Setting.** Make sure your time zone is set properly in the clock settings.
5. Avoid placing the clock on a solid metal plate.
6. **Avoid closed in areas.** Closed in areas such as airports, basements, or industrial buildings are not recommended.

3. Clock Display

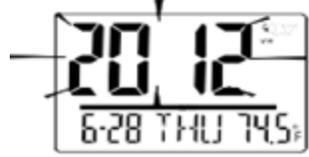| Normal Mode		Alarm Mode	
No	**Description**	**No**	**Description**
1	Normal Time	10	Alarm time
2	AM/PM	11	Alarm AM/PM
3	Date	12	Alarm On / Snooze
4	Month	13	Alarm mode
5	Day of the week		
6	Indoor temperature		
7	RCC Signal strength indication		
8	Daylight savings time		
9	Time zone map		

Figure 3

4. Settings

4.1 Daylight Time Zone Settings

The clock has been programmed to automatically switch when daylight saving time is in effect. Your clock will display "DST".

Note: Arizona does not observe daylight savings time. If you live in Arizona and DST is in effect, you will need to change your time zone to **P** for Pacific.

4.2 Time Zone, Time and Date Settings

Operation	Display
While in Normal Time Mode, Press and Hold the **CLOCK** key for two seconds to enter the time zone, time and date settings mode. The Time Zone icon will flash. Press the up arrow key ▲ to adjust between Pacific (P), Mountain (M), Central (C) and Eastern (E). **Note:** Only proceed if you want to manually set the date, time or time format.	
Press the CLOCK key again (do not hold). The year will flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	

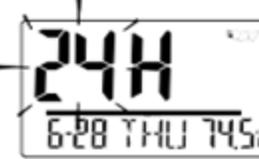| Press the **CLOCK** key again (do not hold) and the month will flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	
Press the **CLOCK** key again (do not hold) and the day will flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	
Press the **CLOCK** key again (do not hold) and the 12 Hour Format (AM/PM) will flash. Press the up arrow key ▲ to change between 12 hour and 24 hour format.	
Press the **CLOCK** key again (do not hold) and the hour flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	
Press the **CLOCK** key again (do not hold) and the minute flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	
Press the **CLOCK** key again (do not hold) and the second flash. Press the up arrow key ▲ to reset to 00 seconds.	
Press the **CLOCK** key again (do not hold) and the language will flash. Press the up arrow key ▲ to change between GB (English), FR (French), DE (German), ES (Spanish) and IT (Italian).	
Press the **CLOCK** key to save and exit the time and date settings mode.	

Figure 4

4.3 Setting the Alarm Time

Operation	Display
While in Normal Time Mode, Press and Hold the **ALARM** key for two seconds to enter the alarm settings mode. The alarm hour will flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	

Press the **ALARM** key again (do not hold) and the alarm minute flash. Press the up arrow key ▲ to increase. Press the down arrow key ▼ to decrease. Press and hold to increase or decrease rapidly.	
Press the **ALARM** key to save and exit the alarm time settings mode.	

4.4 Using the Alarm and Snooze Functions

4.4.1 Alarm Function

- Set the alarm time as described in Section 4.3.
- Slide the ALARM ON/OFF switch to the ON position. The alarm icon will appear on the display. .
- Slide the ALARM ON/OFF switch to the OFF position to turn off the alarm.

4.4.2 Snooze Function

- When the alarm is sounding, the alarm will beep for one minute if no keys are pressed, and it will sound again the next day.
- Press the **SNOOZE/LIGHT** key to snooze and the alarm icon will flash.
- With the bell icon flashing, the crescendo alarm will sound four times every 5 minutes. The alarm will beep for one minute if no keys are pressed, and it will sound again the next day.

4.5 Automatic Backlight

The backlight will automatically turn on in low light conditions using a light sensor on the top of the clock. Slide the **LIGHT ON/OFF** switch to **ON** position, and the backlight will turn on in low light conditions. Slide the **LIGHT ON/OFF** switch to **OFF** position to turn off all of the time.

4.6 Temperature Units of Measure

To change the temperature units of measure between °F and °C, press the RCC button.

4.7 Manual RCC Synchronization

To manually search for the Radio Controlled Clock signal, press and hold the REC key. The RCC search icon will turn on. The RCC will continue to search for six minutes.

5. Specifications

5.1 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	Range	Accuracy	Resolution
Indoor Temperature	32 to 140 °F	± 2 °F	0.1 °F

5.2 Power Consumption

- Clock: 2 x AAA Alkaline batteries recommended.

6. Troubleshooting Guide

If your question is not answered here, you can contact us as follows:

1. Email Support: support@ambientweather.com
2. Technical Support: 480-346-3380 (M-F 8am to 4pm Arizona Time)

Problem	Solution
Radio controlled clock does not update.	1. **Be patient. Wait at least one week before contacting Ambient Weather.** The RCC is a shortwave signal originating near Fort Collins, Colorado, and travels thousands of miles by bouncing off the ionosphere. The signal is better at night due to solar interference during the daytime. The farther you are from Colorado, the weaker the signal. Urban environments can also affect the signal strength. 2. **Locate the Clock at night near a window or outer wall, and away from other radiating sources, like wireless routers or TVs.** This will insure the best reception possible. 3. **If running on battery power only, test and replace the batteries in the clock if required.** Low batteries are often the cause for weak reception. 4. Avoid placing the clock on a solid metal plate. 5. **Avoid closed in areas.** Closed in areas such as airports, basements, or industrial buildings are not recommended.
The clock is off by increments of an hour.	**Check your Time Zone Setting.** Make sure your time zone is set properly in the clock settings.
The clock does not respond to commands.	Press the reset button on the back of the clock with an open ended paper clip or sharp tool.

7. Liability Disclaimer

Please help in the preservation of the environment and return used batteries to an authorized depot. The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Reading the "User manual" is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of weather conditions. This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.

Ambient, LLC WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT.

8. FCC Statement

Statement according to FCC part 15.19:
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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:
Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:
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.

9. Warranty Information

Ambient, LLC provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and only to the original purchaser of this product. To receive warranty service, the purchaser must contact Ambient, LLC for problem determination and service procedures.

Warranty service can only be performed by a Ambient, LLC. The original dated bill of sale must be presented upon request as proof of purchase to Ambient, LLC.

Your Ambient, LLC warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (lack of reasonable and necessary maintenance); (2) damage resulting from failure to follow instructions contained in your owner's manual; (3) damage resulting from the performance of repairs or alterations by someone other than an authorized Ambient, LLC authorized service center; (4) units used for other than home use (5) applications and uses that this product was not intended (6) the products inability to receive a signal due to any source of interference or metal obstructions and (7) extreme acts of nature, such as

lightning strikes or floods.

This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.