Ambient Weather RC-8320 Radio Controlled Alarm Clock with Indoor Temperature User Manual

Table of Contents

1. Introduction 1
2. Getting Started 1
   2.1 Parts List 2
   2.2 Powering Up 2
      2.2.1 Radio Controlled Clock (RCC) 2
      2.2.2 Clock Layout 3
3. Operational Modes 4
   3.1 Normal Time Mode 4
   3.2 Alarm Time Mode 4
4. Settings 5
   4.1 Time, Date, Time Zone Settings 5
   4.2 Alarm Settings 6
   4.3 Using the Alarm and Snooze Functions 7
      4.3.1 Disabling a Sounding Alarm 7
   5.6 Low Battery 7
5 Specifications 7
   6.1 Measurement Specifications 7
   6.2 Power Consumption 7
6 Troubleshooting Guide 8
7 Liability Disclaimer 8
8 Warranty Information 9

1. Introduction

Thank you for your purchase of the Ambient Weather RC-8320 Radio Controlled 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/rc8320

2. Getting Started

Note: Remove the plastic film from the clock face before getting started.

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2.1 Parts List

QTY	Item
1	Clock Frame Dimensions (LxWxH): 5.25" L x 2.75"D x 2.0"H
1	User Manual

Figure 1

2.2 Powering Up

1. Remove the battery door on the back of the clock and insert 2 new AA 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 key on the back of the clock with an open ended paper clip or sharp tool.

2.2.1 Radio Controlled Clock (RCC)

Eight seconds after power up, the clock will begin radio controlled clock (RCC) reception and the RCC search icon will turn on and blink. The RCC will continue to search for six minutes. It will try again every two hours. Be patient. It may take several days to set. In the meantime, you can set the time manually.

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), please reference Section 6, Troubleshooting Guide.

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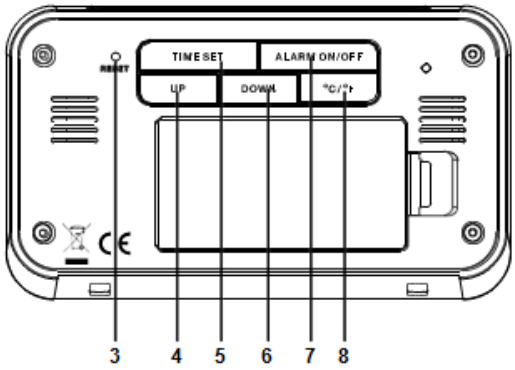
2.2.2 Clock Layout



No	Description	No	Description
1	**ALARM/SNOOZE** • Press to disable alarm for 24 hours while in Alarm Mode. • Press to disable alarm while in Snooze Mode. • Press and Hold for two seconds to disable alarm for 24 hours while in Snooze Mode. • Press to turn on back light for 5 seconds.	5	**TIME SET** In normal time mode, press and hold for two seconds to enter Time Set mode.
2	LCD Display	6	**DOWN button**. In set mode and alarm set mode, press to descrease the set values. Press and hold to change rapidly.
3	**RESET button**. In the event of malfunction, press the reset key with an open ended paper clip or sharp object to restore to factory default.	7	**ALARM ON/OFF button** • In normal time mode, press and hold for two seconds to enter Alarm Set mode. • In normal time mode, press to turn on and off the alarm and snooze function.
4	**UP button**. • In set mode and alarm set mode, press to increase the set values. Press and hold to change rapidly. • In normal time mode, press to switch between date and alarm time.	8	**°C / °F** button. • In normal time mode, press to switch between °C and °F. • In normal time mode, press and hold for 8 seconds to begin radio controlled clock search.

Figure 3

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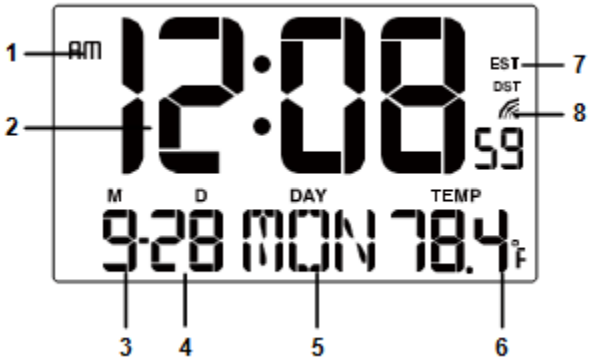
3. Operational Modes

3.1 Normal Time Mode



No	Description	No	Description
1	AM/PM	5	Day of Week
2	Time	6	Temperature
3	Month	7	Time Zone and Daylight Savings Time
4	Day	8	Radio Controlled Clock signal strength indicator

Figure 4

3.2 Alarm Time Mode

No	Description	No	Description
1	AM/PM	3	Alarm icon
2	Alarm Time		

Figure 5

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4. Settings

4.1 Time, Date, Time Zone Settings

Operation	Display
While in Normal Time Mode, Press and Hold the **TIME SET** button for two seconds to enter the time, date, and Time Zone settings mode. The Time Zone will flash. Press the UP button to to select from: PST=Pacific, MST=Mountain, CST=Central, EST=Eastern. **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 **PST** for Pacific.	
Press the **TIME SET** button again (do not hold) and the Year will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	
Press the **TIME SET** button again (do not hold) and the Month will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	
Press the **TIME SET** button again (do not hold) and the Day will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	
Press the **TIME SET** button again (do not hold) and the 12 hour format (AM/PM) will flash. Press the **UP** key to change between 12 hour and 24 hour format.	
Press the **TIME SET** button again (do not hold) and the Hour will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	

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Operation	Display
Press the **TIME SET** button again (do not hold) and the Minute will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	
Press the **TIME SET** button again (do not hold) and the Seconds will flash. Press the **UP** button to reset the seconds to 00.	
Press the **TIME SET** button again (do not hold) and the language will flash. Press the **UP** key to change between GB (English), FR (French), DE (German), ES (Spanish) and IT (Italian).	
Press the **TIME SET** button again (do not hold) to save and exit the time and date settings mode.	

Figure 6

4.2 Alarm Settings

Operation	Display
While in Normal Time Mode, press and hold the **ALARM ON/OFF** button to enter the alarm setting mode. The alarm hour will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	
Press the **ALARM ON/OFF** button again (do not hold) and the alarm minute will flash. Press the **UP** button to increase. Press and hold the **UP** button to increase rapidly. Press the **DOWN** button to decrease. Press and hold the **DOWN** button to decrease rapidly.	

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Operation	Display
Press the **ALARM ON/OFF** button again (do not hold) to save and exit the alarm settings mode.	

Figure 7

4.3 Using the Alarm and Snooze Functions

1. Set the alarm time as described in Section 4.2.
2. While in Normal Time Mode, press the **ALARM ON/OFF** button to enter the alarm setting mode.
3. Press **ALARM ON/OFF** button to turn on the alarm function .
4. Press the **ALARM ON/OFF** button again to turn on the snooze function Zz.
5. Press the **ALARM ON/OFF** button again to turn off both the alarm function and snooze function.

Note: In the snooze mode, the alarm will sound four times in four minute intervals. The alarm duration is 60 seconds. To temporarily silence the alarm, press the **ALARM/SNOOZE** button on the top of the radio.

4.3.1 Disabling a Sounding Alarm

Press the **ALARM/SNOOZE** button to disable alarm for 24 hours while in Alarm Mode.
Press the **ALARM/SNOOZE** button to disable alarm while in Snooze Mode.
Press and Hold the **ALARM/SNOOZE** button for two seconds to disable alarm for 24 hours while in Snooze Mode.

5.6 Low Battery

When the display dims or radio controlled time reception is intermittent, replace with 2 new AA size batteries. Pay attention to the polarity.

5 Specifications

6.1 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	Accuracy	Resolution
Indoor Temperature	± 2 °F	0.1 °F

6.2 Power Consumption

- 2 x AA 1.5V Alkaline batteries recommended.

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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.	• **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. • **Locate the console 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. • **Test and replace the batteries in the clock if required.** Low batteries are often the cause for weak reception. • Avoid placing the clock on a solid metal plate. • **Avoid closed in areas.** Closed in areas such as airports, basements, or industrial buildings are not recommended. • **Press the reset** button on the back of the clock.
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 key 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.

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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 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.

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