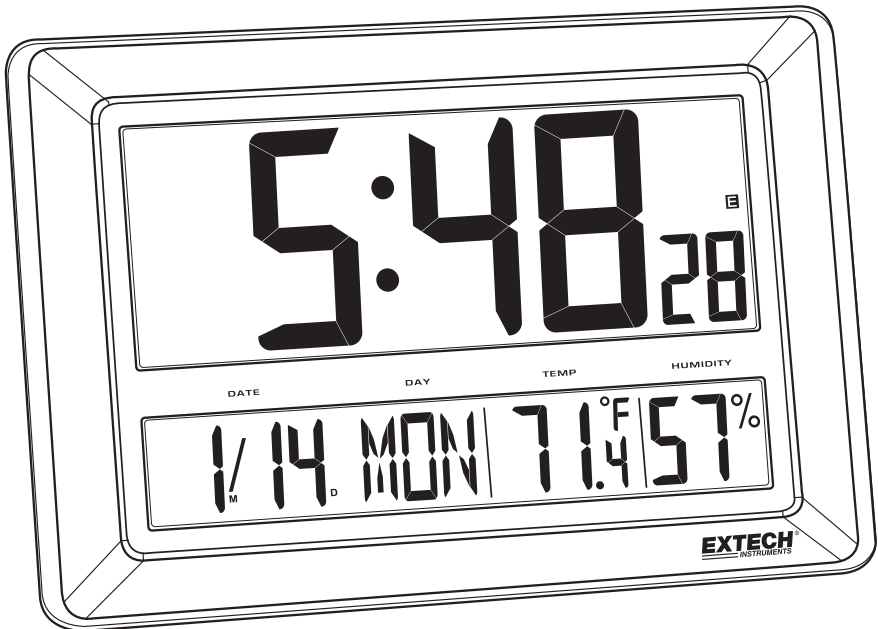


# Radio Controlled Clock with Temperature & Humidity

## Model CTH10A



## Introduction

Thank you for selecting the Extech Model CTH10A Radio Controlled Clock with Hygro-Thermometer displays. The CTH10A is a real-time calendar Clock (12/24 hour) that also displays temperature and relative humidity measurements taken from its internal environmental sensors. The clock can be set manually or automatically using the RC-WWVB time signal. The CTH10A includes an audible/visible daily alarm function with 'snooze' mode.

This device is shipped fully tested and calibrated and, with proper use, will provide years of reliable service. Please visit our website ([www.extech.com](http://www.extech.com)) to check for the latest version of this User Guide, Product Updates, Product Registration, and Customer Support.

## Meter Description

A1: RC-WWVB time signal Icon

A2: Time Display

A3: Date

A4: Day of Week

A5: Indoor Humidity

A6: Indoor Temperature

B1: 'Snooze' Button

B2: 'MODE/SET' Button

B3: '+ 12/24' Button

B4: '- C/F  Button

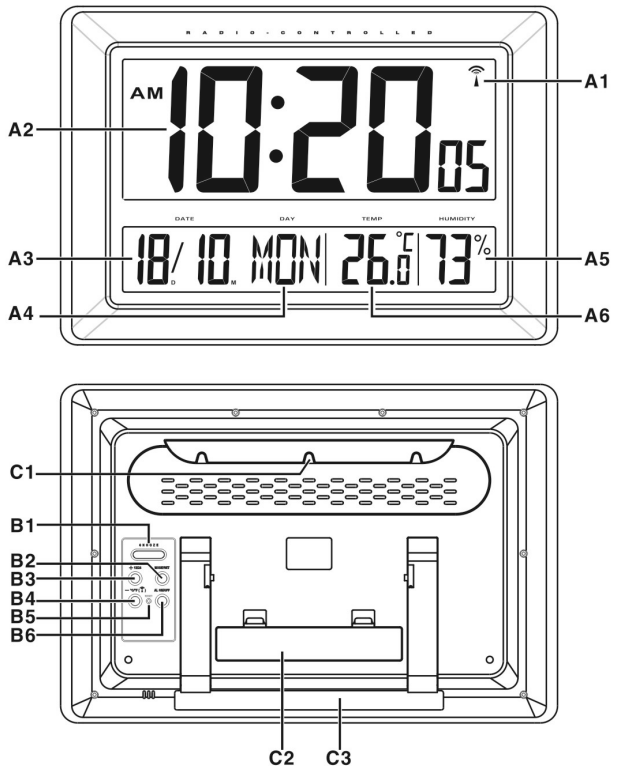
B5: 'RESET' Button

B6: 'AL ON/OFF' Button

C1: Wall Mount Hole

C2: Battery compartment

C3: Tilt Stand







## Operation



### Getting Started

Open the rear battery compartment, insert three (3) 'C' type batteries observing correct polarity and then close and secure the compartment cover. Press the Reset button (using the tip of a paper clip or pin) in order to initialize the meter.

### Automatic Time Setting

- After inserting the batteries and resetting the unit as described above, the clock automatically scans for the WWVB time signal and the icon  flashes on the LCD.

|                                                                                                                                      |                                                                                                                                       |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|  flashes<br>Indicating now is receiving WWVB signal |  turns on<br>Indicating signal received successfully |  disappears,<br>Indicating signal reception failed |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

- The clock automatically synchronizes with the WWVB radio signal every day at 2am to maintain accurate time. If synchronization with the signal fails, the signal icon disappears; the clock then attempts to synchronize with the WWVB signal at 3, 4, and 5am.
- The clock can be set to scan the time signal manually by holding the  button (B4) for 3 seconds. Note: If a manual scan is attempted with the signal icon showing, the signal icon will disappear and the manual scan will have to be attempted again. Each reception takes about 5 minutes. If reception fails, scanning stops and the signal icon disappears; the scan then repeats on the next full hour (e.g. if a scan failed at 8:20am a scan will be tried again at 9am).
- Stop scanning by holding "" button (B4) for 3 seconds.

*Note: Buttons will not function while scanning for the WWVB time signal.*


### Manual Time Setting

- In the time display mode, hold the "MODE" button (B2) for 3 seconds to enter the Clock/Calendar setting Mode.
- Press "+" (B3) or "-" (B4) button to adjust the setting and press the "MODE" button (B2) to confirm each setting and move to the next setting.
- The setting sequence is as follows: Hour, Minute, Second, Year, Month/Day sequence, Month, Day, DST.

#### Notes:

- All setting modes will automatically exit after 15 seconds of inactivity.
- Press and hold the plus or minus button for faster scrolling of digits while editing.
- For Time Zones: The default setting is zone "P". Hold "+" (B2) button for 3 seconds to change to another zone "P" "M" "C" or "E" Pacific, Mountain, Central, and Eastern.
- DST: When the DST function is activated (Daylight Saving Mode) "DST" will be shown on the LCD. Set 'DST' as described in the Manual Time Setting section above.

## Daily Alarm Setting

- Press “MODE” button (B2) to view the Alarm Time, “AL” is shown on the display.
- When viewing the Alarm Time, hold “MODE” button (B2) for 3 seconds to enter the Alarm Time setting mode. Press “+” (B3) or “-” (B4) button to adjust the alarm time. Press the “MODE” button (B2) to confirm the setting and move to the next setting.
- Press “AL ON/OFF” Button (B6) to activate or deactivate the alarm. If the alarm is on, the alarm icon "  " appears on the display.

## Snooze Alarm

- Press the “SNOOZE” (B1) button when the alarm tone sounds. The alarm snoozes for approx. 5 minutes, after which time it alerts again. “**Z<sup>Z</sup>**” flashes on the LCD during the snooze time. This process can be repeated 7 times.
- Except for the “SNOOZE” button, any button can be pressed to stop the snooze alarm. Otherwise, the alarm signal sounds for 2 minutes, then stops automatically.

## 12/24 Hour Display Mode

Press the “12/24” (B3) button to select the 12 or 24 hour mode.

## Thermometer and Relative Humidity Displays

- The CTH10A includes internal temperature and relative humidity sensors. Temperature and relative humidity measurements are displayed on the lower right side of the clock.
- Press the “°C/°F” (B4) button to select C: Celsius or F: Fahrenheit units.
- If the temperature exceeds the measurable range, **LL.L** (beyond the minimum temperature) or **HH.H** (beyond the maximum temperature) will be shown on the LCD.

## Important Notes

- The clock loses time information when the batteries are removed.
- Do not expose the Clock to direct sunlight, extreme temperatures, or high humidity
- Never clean the device using abrasive or corrosive materials or products. Use a damp cloth to wipe the housing clean as necessary.

## Battery Replacement

---

When the Clock no longer displays digits and text please replace the batteries. Open the rear battery compartment, insert three (3) 'C' type batteries observing correct polarity and then close and secure the compartment cover. Press the Reset button (using the tip of a paper clip or pin) in order to initialize the meter.



Never dispose of used batteries or rechargeable batteries in household waste.

As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

**Disposal:** Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

## Specifications

---

|                               |                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Display                       | Extra-large multi-function LCD                                                                                                      |
| Calendar Clock                | Real-time calendar clock (up to year 2069)                                                                                          |
| Time signal detector          | RC-WWVB radio signal automatically sets the time (clock time may also be manually set)                                              |
| Temperature Measurement range | 0~50°C (32~122°F)                                                                                                                   |
| Storage Temperature           | -20~60°C (-4~140°F)                                                                                                                 |
| Temperature Resolution        | 0.1 °C or °F                                                                                                                        |
| Temperature Accuracy          | ±1.5°C (±3°F): -5°C to 0°C (23°F to 32°F)<br>±1°C (±2°F): 1°C to 30°C (33°F to 86°F)<br>±3°F (±1.5°C): 31°C to 50°C (87°F to 122°F) |
| Over-range temp. indication   | <b>HH.H</b> display                                                                                                                 |
| Under-range temp. indication  | <b>LL.L</b> display                                                                                                                 |
| R.H. Measurement range        | 20~99% Relative Humidity                                                                                                            |
| R.H Accuracy                  | 20% to 40% RH: ±8% RH (@25°C)<br>41% to 70% RH: ±6% RH (@25°C)<br>71% to 90% RH: ±8% RH (@25°C)                                     |
| Power supply                  | Three (3) 'C' type batteries                                                                                                        |
| Dimensions                    | 29 x 43 x 3.8 cm (11.4 x 17 x 1.5 in.)                                                                                              |
| Weight                        | 1.25 kg (2.75 lbs.)                                                                                                                 |

**Copyright © 2015 FLIR Systems, Inc.**

All rights reserved including the right of reproduction in whole or in part in any form

ISO-9001 Certified

**www.extech.com**