

Atomic Digital Desk Clock with Heat & Comfort Index Model CL030054-00-NA



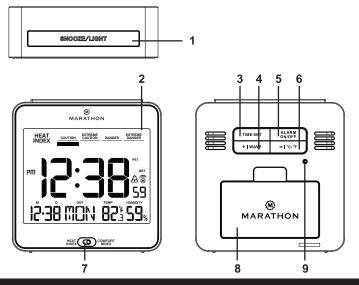
This atomic clock is self-setting and self-adjusting. The clock automatically receives the atomic signal from the National Institute of Standards and Technology (NIST) Atomic Clock, located in Fort Collins, Colorado.

On the front of the clock, you will find a switch that will allow you to shift back and forth from the Heat Index to the Comfort Index. The Heat Index will display in extreme heat conditions a warning from "Caution" to "Extreme Danger" based on the combined algorithm of temperature of temperature and humidity in the room. The Comfort Index will display one of three indicators using the combination of humidity and temperature to advise the user from comfortable to very uncomfortable.

For the best possible product performance, we recommend that you read the instruction manual in its entirety, and keep it handy for future reference.

UNIT APPEARANCE

- 1. [SNOOZE/LIGHT] button
- 2. LCD display
- 3. [TIME SET] button
- 4. **[+/WAVE]** button
- 5. [ALARM ON/OFF] button
- 6.[-/°C/°F] button
- 7. [HEAT INDEX/COMFORT INDEX] slide switch
- 8. Battery compartment
- 9. [**RESET**] button



DISPLAY SYMBOLS

Normal time mode

- 1. AM/PM
- 2. Heat Index/Comfort Index indicator
- 3. Normal time
- 4. Time zone
- 5. Daylight Saving Time indicator
- 6. Signal strength indicator
- 7. Month and Date
- 8. Day of the week
- 9. Temperature
- 10. Humidity

Alarm time mode

- 11. Alarm time
- 12. Alarm icon

13. Alarm mode indicator





AUTOMATIC TIME & CALENDAR SETTING

IF YOU ARE IN THE PACIFIC STANDARD TIME ZONE (PST), PLEASE PROCEED TO "A" $\,$

IF YOU ARE IN THE FOLLOWING TIME ZONES: MST, CST, EST, AST, NST PROCEED TO "B" $\,$

A: FOR USERS IN PST:

- 1. Remove plastic film from clock display.
- 2. Insert the two AA batteries (included).
- 3. The clock will automatically default to the Pacific Standard Time zone (PST)
- 4. Place clock near a window overnight to receive the atomic radio signal that sets the time and calendar automatically.

B: FOR USERS IN MST, CST, EST, AST, NST:

- 1. Remove plastic film from clock display.
- 2. Insert the two AA batteries (included).
- 3. The clock will automatically default to the Pacific Standard Time zone. If you are not located in the PST, proceed with the following steps.
- 4. Manually set the time zone by pressing the **TIME SET** button for two seconds (found on the back of the clock).
- 5. When "12" begins flashing on the display, press and release the TIME SET button again. The time zone will start flashing.
- 6. Use the "+ WAVE" & "- C/F" buttons to navigate to your time zone. Press and hold the "TIME SET" button for 2 seconds to save and set.
- 7. Place clock near a window overnight to receive the atomic radio signal that sets the time and calendar automatically.

SIGNAL STRENGTH INDICATOR

The signal indicator displays signal strength in 4 levels. The 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:

- The strength of radio-controlled time signal from the transmitter tower may be affected by geographical location or surrounding buildings.
- Always place the unit away from interfering sources such as a TV, computer, etc.
- Avoid placing the unit on or next to metal frames or surfaces.
- Use of the clock in closed areas such as an airport, basement, tower block or factory are not recommended

NOTE: When the batteries are initially installed in the clock, the Radio-Controlled transmitter will automatically begin searching for the atomic time signal within 8 seconds. If not, manually enable it by pressing and releasing on the [+I WAVE] button and the signal strength indicator will appear.

SETTING THE TIME

When radio reception is unavailable/undetectable or you wish to complete setup right away, follow the instructions below.

- 1. To set the time manually, hold down the **[TIME SET]** button at the rear of the clock for 2 seconds. The 12 Hr on the LCD screen will begin flashing. To select either 12 or 24-hour (military time) display, press the **[+I WAVE]** button. Once your desired choice is flashing, press **[TIME SET]** button again to move forward and save your selection.
- 2. The time zone indicator will now be flashing. Press the [+I WAVE] and [-I C/F] to switch through the 6-time zones. The time zone setting order is as follows:

PST (Pacific) → MST (Mountain) → CST (Central) → EST (Eastern) → AST (Atlantic) → NST (Newfoundland)

- Press [TIME SET] button until hour digit flashes. Press the
 [+| WAVE] and [-| C/F] to adjust the value. Press the [TIME SET]
 button to move to the next step in setting the time and calendar.
- 4. Repeat the above operations to set the remainder of the settings. **Setting order:**

NOTE

- When making your selection for M-D/D-M (month and date) the clock will default to Month then Date. Use the [+| WAVE] & [-| C/F] buttons to navigate between the two choices. Press [TIME SET] to save selection and proceed to set the actual month and date.
- 2. [+/-23 HOUR OFFSET] is used when your time zone is outside of North America. When the clock synchronizes, it will do so to the time zone you set. Whatever that may be, just add or subtract the number of hours needed to get to where you are located. Simply use the "up" and "down "buttons to do so. During synchronization, your clock will adjust accordingly!
- 3. Seven selectable languages and setting orders:

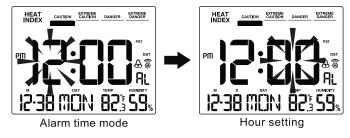
$$\begin{split} & \mathsf{EN}(\mathsf{English}) \longrightarrow \mathsf{FR}(\mathsf{French}) \longrightarrow \mathsf{DE}(\mathsf{German}) \longrightarrow \mathsf{ES}(\mathsf{Spanish}) \\ & \longrightarrow \mathsf{IT}(\mathsf{Italian}) \longrightarrow \mathsf{NL}(\mathsf{Dutch}) \longrightarrow \mathsf{RU}(\mathsf{Russian}) \end{split}$$

TEMPERATURE

The indoor room temperature will display on the LCD. To switch between Celsius and Fahrenheit simply press [-| C/F] on the back of

SETTING THE ALARM TIME

- 1. Hold down the **[ALARM ON/OFF]** button for 2 seconds. When the hour digit(s) begins flashing, the alarm is ready to be set.
- 2. First the hour digit will flash. Use the [+I WAVE] and [-| C/F] buttons to navigate through the numbers. When a number is selected press the [ALARM ON/OFF] button again to save your selection.
- 3. Repeat the same steps to set the minutes.



- 4. Press the **[ALARM ON/OFF]** a final time to save settings and enable the alarm.
- 5. To disable alarm, just press **[ALARM ON/OFF]** and alarm icon (icon "\(\textit{\textit{B}}\)" displayed) will disappear. Press button again to enable it.
- 6. To reset a different alarm time repeat steps 1-4

USING THE ALARM AND SNOOZE FUNCTION

If alarm is turned on, alarm beeps at the alarm time. Alarm beeping can be stopped by:

- 1. If no buttons are pressed, the alarm will automatically stop after two minutes.
- Press [SNOOZE/LIGHT] button to stop the current alarm and enter snooze. Alarm icon will flash continuously. The alarm will sound again in 5 minutes. Snooze can be operated continuously over 24 hours.
- Press [ALARM SET] button to turn off alarm function.
 NOTE: [SNOOZE/LIGHT] button on top of the lock turns on the backlight for 5 seconds when pressed.
- 4. When pressed at other times the button functions as an ambient light source. The LCD screen will remain lit for 5 second increments with each pressing.

CHECK THE HEAT INDEX/COMFORT INDEX

You may slide [HEAT INDEX/COMFORT INDEX] switch to select the desired mode to check the Heat Index & Comfort Index.





Heat Index mode

Comfort Index mode

The small switch on the front of the clock allows you to choose to display either the Heat Index or Comfort Index. For both, the temperature and humidity will still be displayed at the bottom of the screen. However, at the top will be a varying chart.

If you choose to display the heat index, it will display a chart with levels varying from "Caution" to "Extreme Danger" based on the temperature and humidity it reads. For the Comfort Index, you will see 3 face icons displayed, one representing the cooler temperature, another for moderate and one with perspiration from heat.

METRICATION OF TEMPLATE: HEAT TABLE

Heat Index		0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100																				
		U	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Temp (°F)	135	120	126																			
	130	117	122	131																		
	125	111	116	123	131	141																
	120	107	111	116	123	130	139	148														
	115	105	107	111	115	120	127	135	143	151												
	110	99	102	105	108	112	117	123	130	137	143	150										
	105	95	97	100	102	105	109	113	118	123	129	135	142	149								
	100	91	93	95	97	99	101	104	107	110	115	120	126	132	138	144	150					
	95	87	88	90	91	93	94	96	98	101	104	107	110	114	119	124	130	136	140	150		
	90	83	84	85	86	87	88	90	91	93	94	96	98	100	102	106	109	113	117	122	126	131
	85	78	79	80	81	82	83	84	85	86	87	88	89	90	91	93	95	97	99	102	105	108
	80	73	74	75	76	77	77	78	79	79	80	81	81	82	83	84	85	86	87	88	89	90
	75	69	69	70	71	72	72	73	73	74	74	75	75	76	76	77	77	78	78	79	79	80
	70	64	64	65	65	66	66	67	67	68	68	69	69	70	70	70	70	71	71	71	71	72
Heat Inde		Extremely danger: above 130°F				Danger: 106 ~ 129°F			Extremely caution: 90 ~ 105°F			Caution: 80 ~ 90°F				No display: below 79°F						

HEAT STRESS INDEX

DANGER CATEGOY	APPARENT TEMPERATURE HEAT SYNDROME								
Extreme Danger	Greater than 130°F	Heatstroke or sunstroke imminent							
Danger	106°F – 129°F	Sunstroke, heat cramps, or heat exhaustion likely. Heat stroke possible with prolomged exposure and physical activity							
Extreme caution	90°F – 105°F	Sunstroke, heat cramps, and heat exhaustion possible with prolonged exposure and physical activity							
Caution	80°F – 90°F	Fatigue possible with prolonged exposure and physical activity							

BATTERY REPLACEMENT

Two AA batteries are included with you new clock.

When the low battery indicator displays, it indicates that the battery will need to be replaced. Install two new AA batteries.

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

