



DIGITAL ATOMIC WALL/DESK CLOCK WITH THERMOMETER

Operating Instructions



WARNING:

CHOKING HAZARD--Small parts
Not for children under 3 yrs.

Your new Digital Atomic Wall/Desk Clock incorporates the latest digital electronic technology. The clock has a built-in radio receiver that decodes the time signal from the national time base radio station of the National Institute of Standards and Technology (NIST). This station transmits a radio signal from an atomic clock located in Fort Collins, Colorado. Please read the following instructions before using this clock for the first time. Note that when the clock is new out of the box, or after batteries are replaced, initial synchronization with the NIST signal could take up to 72 hours, depending on the strength of the time signal in your area.

Battery Installation

1. Open the battery cover on the back of the unit.
2. Insert two (2) AA size batteries according to the polarity shown inside the battery compartment.
3. Close the battery cover until it clicks shut.

Atomic (Radio Controlled) Clock Reception

1. After installing the batteries, the tower icon "⌚" will start blinking, indicating that the unit is searching for the NIST radio-controlled clock signal. When the reception signal is received, the tower icon will stop blinking and be steadily displayed.
2. If the NIST signal is not received, the tower icon will disappear. If this happens, try other locations where the radio signal may stronger such as near a window. Hold the "(+) ⌚" button for 3 seconds to trigger the time reception again. Never place your clock close to sources of interference such as computer monitors, televisions, microwaves, ovens, refrigerators, etc. Never place the clock on a metal surface because this will affect the proper operation of the clock.
3. To disable the radio-controlled clock feature in order to manually set the unit, press the "(+) ⌚" button. The radio signal tower icon will disappear and the clock will not respond to the NIST signal. To enable radio signal reception again, press & hold the "(+) ⌚" button for 3 seconds. The radio signal tower icon will start blinking to initiate reception of the NIST signal.

NOTE: The clock cannot be set manually when the unit is searching for the NIST signal, as indicated by a blinking tower icon.

Setting the Clock and Calendar

1. Press & hold the "CAL/CLK SET" button for three seconds.
2. The digit "12" will blink. Use the "(-)" or "(+)" buttons to select either the 12 or 24 hour time display format. Then press "CAL/CLK SET" button to save this setting.

3. The hour digits will then blink. Use the “(-)” or “(+)” button to set the desired time (each press of the “(+)” or “(-)” button will increase or decrease the digits by one. Holding either of these buttons down will cause rapid change of the digits). Then press “CAL/CLK SET” button to set the hour.
4. The minute digits will then blink. Repeat the procedure above to set the minutes, year, month, and date.

To Select Time Zone Offset, Daylight Savings Time / Standard Time

1. Press & hold the “(-) TIME ZONE” button for three seconds to enter the Time Zone setting mode.
2. Press the “(-)” or “(+)” button again to choose among “P—T” (Pacific Time), “E—T” (Eastern Time), “C—T” (Central Time) and “M—T” (Mountain Time) zones. Press the “CAL/CLK SET” button to confirm the setting.
3. “D — T” or “S—T” will blink. Press the “(-)” or “(+)” button to select “D—T” (Daylight Savings Time) or “S—T” (Standard Time). Press the “CAL/CLK SET” button to confirm.
4. When the radio controlled time signal is received, the clock will automatically adjust for Daylight Savings Time and Standard Time.
5. Press the “(-)” button once to show the current Time Zone for three seconds.

To Set Daily Alarm

1. Press & hold the “ALARM SET” button for three seconds to enter the daily alarm setting mode. The “AL” icon will appear and the hour digits will blink.
2. Press the “(-)” or “(+)” buttons to set the hours (each press of the button “(+)” or “(-)” will increase or decrease the digits by one. Holding the button will cause rapid change of the digits). Press the “ALARM SET” button to confirm.
3. The minute digits will then blink. Press the “(-)” or “(+)” button to set the desired minutes (each press of the “(+)” or “(-)” button will increase or decrease the digits by one. Holding the button will cause rapid change of the digits). Press the “ALARM SET” button to confirm and exit the setting mode.
4. Press the “ALARM SET” button once to show the set alarm time.

To Turn Daily Alarm On/OFF

1. To turn the alarm on or off, press the “ALARM ON/OFF” button.
2. When the alarm beeps, press any button to stop the alarm for the next 24 hours.

Precautions

- a. Do not clean the unit with abrasive or corrosive materials, as they may scratch the plastic parts and corrode the electronic circuits. Clean the product with a soft cloth moistened with a mild soap solution.
- b. Do not subject the unit to excessive force, shock, dust, temperature or humidity, since such exposure may result in malfunction, shorter electronic life span, damaged batteries and distorted parts.
- c. Do not tamper with the unit’s internal components. There are no user-serviceable parts.
- d. Do not expose the unit to direct sunlight or hot or cold temperature extremes.
- e. Always read, understand, & follow these instructions when operating this unit. Keep these instructions for future reference.

Troubleshooting

My clock doesn't synchronize.

- Check the batteries and replace them if necessary.
- If you have placed the clock on a desk or table, try rotating it 90 degrees. For a wall-mounted clock, try mounting it on a wall perpendicular to the one it is currently on (e.g. if it is on a north-south wall try an east-west wall). The antennas are directional and you may be able to improve the signal strength by turning the antenna.
- Place the clock near a window to improve signal reception strength.
- Locate the clock at least three to four feet away from computer monitors and other electronic devices, since they can cause interference (some monitors have a scan frequency at or near the carrier frequency of 60 kHz).
- If nothing else works, take the clock outdoors at night and power it down (remove the batteries or unplug it), then power it up again to force it to look for the time signal. If the clock works outdoors but not indoors, you probably have a local interference problem inside your house or building.

NOTE: Do not leave the clock outside for long periods of time, as it is not weatherproof.

My clock is off by a few minutes or seconds.

This is most likely a reception problem. When your clock isn't currently receiving a signal, the time will "drift" and gradually get farther away from the correct time. Remember, if your clock is not receiving the time signal, it isn't "atomic" any longer; it's just a normal quartz clock.

Most digital atomic clocks have an icon on the display to indicate signal reception strength. If you do not know whether the signal is being received, try powering down the clock (unplug it or remove the batteries), then turn it on again to see if it will synchronize. If it doesn't, see the tips in the "My clock doesn't synchronize" section for improving your reception.

Checking your clock.

You do not need to check a properly working atomic clock; it should always display the correct time. However, if you want to check its accuracy, you can check the NIST web clock on the Internet at www.nist.time.gov, or listen to NIST Radio Station WWV using a shortwave radio.

We switched to Daylight Savings Time, but my clock didn't change.

This is most likely a reception problem. Your clock hasn't received the signal recently, so it didn't know about the time change. Most digital atomic clocks have an icon on the display that indicates signal reception strength. If you are not sure if the signal is being received, try moving the clock to a different location, or power down the clock (unplug it or remove the batteries) and back up again to see if it will synchronize. If it doesn't, see the tips in the "My Clock Doesn't Synchronize" section for improving your reception.

NOTE: Some clocks have a way to disable Daylight Savings Time. Make sure it isn't disabled if your area observes DST.

My clock switched to Daylight Savings Time, but we don't observe DST where I live.

Your clock may have an on/off switch for DST. Turn it off if your area does not observe DST. For clocks that do not have a DST on/off switch, change your time zone setting during DST to have your clock display the correct time.

For additional information on atomic clocks and how they work, visit the NIST web site at www.boulder.nist.gov/timefreq/stations/radioclocks.htm

Battery Instructions and Warnings

- Follow the battery manufacturer's safety and usage instructions.
- Keep batteries away from children and pets.
- Do not mix a used battery with a new battery, or mix different chemistries or sizes of batteries.
- Do not use rechargeable batteries with this product.
- Insert the batteries observing the proper polarity (+/-) as indicated inside the battery compartment. Failure to properly align the battery polarity can cause personal injury and/or property damage.
- Remove spent or discharged batteries from the product. Remove the batteries when the product will not be used for extended periods of time.
- Never throw batteries into a fire. Do not expose batteries to fire or other heat sources.
- Battery Disposal: Spent or discharged batteries must be properly disposed of and recycled in compliance with all applicable laws. For detailed information, contact your local solid waste authority.
- Save these instructions for future reference.

Specifications

Clock:	Atomic (radio controlled) clock with quartz backup
Displayed temperature range (°F):	32° to 122°
Battery:	2 x AA batteries (not included)

This device could be sensitive to electrostatic discharge. If this occurs, use a pointed object to press the "RESET" button in order to reinitialize the unit.

LIMITED WARRANTY

This product is warranted against defects in materials and workmanship for one (1) year from the original date of purchase. Within this warranty period, we will replace the item or refund your money at our option at the place of purchase upon presentation of sales receipt or other proof of purchase. This warranty does not apply to items subjected to misuse or accidental damage.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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