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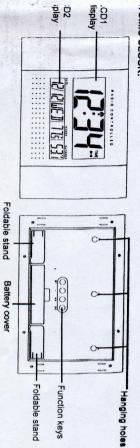
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ITRODUCTION

ongratulations on purchasing this state-of-the-art Atomic Clock as an example of superior design id engineering. Providing WWVB radio-controlled time, date, time zone, indoor and outdoor imperature display, this innovative clock is ideal for home or office use. Operation of this product is mple and straightforward. However, this operating manual provides the user with a better iderstanding of the Atomic Clock and all its features.

EATURES:

TOMIC CLOCK:



WWVB Radio controlled time with manual time setting

12/24 hour time display

Time display: hour, minute, second

Alarm setting with snooze function

Calendar display

Weekday display (3 languages to choose from: English, French and Spanish)

Time zone setting

Daylight savings time ON/OFF option (DST)

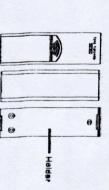
°C or °F temperature display selectable

Indoor temperature display

Outdoor temperature display via 433MHz transmission

Wall mount or freestanding

OUTDOOR TEMPERATURE TRANSMITTER:



- Remote transmission of outdoor temperature to the Atomic clock by 433 MHz signals
- Wall mounting case

TO INSTALL AND REPLACE BATTERIES IN THE ATOMIC CLOCK

steps below: The Atomic Clock uses 2 x AA, 1.5V batteries. To install and replace the batteries, please follow the

- Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover.
- Insert batteries observing the correct polarity (see marking).
- Replace compartment cover.DO NOT SET THE CLOCK.

TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER

steps below: The transmitter uses 2 x AA,1.5V batteries. To install and replace the batteries, please follow the

- Remove the cover.
- Insert the batteries, observing the correct polarity (see marking)
- Replace the battery cover on the unit.

Alkaline batteries are recommended for use in both units.

ot set the clock until the outdoor temperature is displayed. Place batteries in the outdoor transmitter first, then into the atomic clock. DO NOT PRESS ANY BUTTONS FOR 10 MINUTES.

After the 10 minutes both the Indoor and Outdoor areas on your clock should have a temperature showing. If not, remove both sets of batteries, wait 5 minutes and repeat step

controlled time" and "Manual time setting"). set time. The date is also updated with the received time (Please refer to notes on "Radio settings below. The default time zone is Eastern Standard Time.

After the clock receives the outdoor temperature the WWVB time code reception will automatically start. This reception typically takes between 5-10 minutes in good conditions. If within this time frame). When this is successful, the received time will override the manually time from 12:00 am through 6:00 am each day (attempts WWVB reception every full hour the set mode and change either the time or date in order to activate the WWVB reception after 10 minutes the WWVB time has not been received, use the SET key to manually enter After the clock receives the outdoor temperature, set your time zone using the manual (see manual settings below). The clock will then automatically attempt to receive the WWVB

e event of changing batteries of the unit ensure that the batteries do not spring free from the acts. Always wait at least 5 minutes after removing the batteries before reinserting, otherwise up and transmission problems may occur.

ICTION KEYS

Atomic Clock has four easy to use keys:

To enter into the set mode for the following functions: time zone, DST ON/OFF hour, °C or °F temperature display (daylight saving time), language, hour, minute, year, month, day, weekday, 12/24

To toggle between the second, temperature or weekday display

To change any values in manual set mode

To enter into the alarm set mode To set the alarm ON/OFF

I key E key

4

To activate the snooze function during alarm

To display the alarm time in normal mode display

To exit the setting modes

ATOMIC CLOCK LCD SCREEN DESCRIPTIONS

The Atomic Clock's LCD is divided into 2 sections and once the batteries are inserted, all the segments will light up briefly before displaying the information for time, date, indoor and outdoor temperatures.



Weekday or seconds display Indoor temperature or seconds display

MANUAL SETTINGS

automatically set itself to the correct time and date. the correct time and date, then you can skip this section. Your Atomic Clock has If the Atomic Clock has already successfully received the WWVB time signal and displays

be entered by pressing and holding the SET key for 3 seconds. The following settings can now be After completion of the above described procedures in "Setting up" the manual setting modes can

- Time zone setting
- DST ON/OFF
- Language display setting
- Manual time setting
- Month setting Year setting
- Date setting

w

- Weekday setting
- 12/24 hour time display setting
- °C or °F setting

TIME ZONE SETTING

After entering the manual setting mode as described above, the time zone can be set between the -1 to -12 hour or Greenwich Mean Time (GMT) range in LCD2. To do this:

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by pressing and releasing the + key. The time zone (LCD2) will start flashing (Default setting "-5h"). Select the desired time zone

Note: The time zones from -4 to -10 hours will be displayed with 3 characters abbreviations:

- -4 ATL (Atlantic time),
- -5 EST (Eastern time; default time zone),
- -6 CST (Central time),
- -7 MST (Mountain time),
- -8 PST (Pacific time),
- -9 ALA (Alaska time),
- "GMT" will be displayed if set to GMT (0). -10 HAW (Hawaii time).

Press and release the SET key to enter the "DST Setting"

- The ON digit will start flashing on LCD1. Set the DST ON or OFF by pressing the + key
- Press and release the SET key to enter the "Language Setting"

DST SETTING (daylight saving time)

Note:

The DST default is "ON", meaning that the WWVB will automatically change the time according to and parts of Indiana) turn the DST "OFF". Daylight Saving Time in the spring and fall. For areas that do not recognize DST changes (Arizona

LANGUAGE SETTING

The weekdays can be displayed in LCD1 with the pre-set languages: US English, French and

- Set the desired language for the weekday display in LCD 2 by use of the + key.
- Press and release the SET key to enter the mode "Manual Time Setting"

MANUAL TIME SETTING

In case the Atomic Clock is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal Quartz clock

In 12 hours made the time will be displayed with an additional "PM" for the time from 12:00 noon until 11:59.

the + key followed by pressing the SET key. The hour digits will start flashing on LCD1. Set the desired hours by pressing and releasing

- Now the minute digits will start flashing. Set the desired minutes by pressing and releasing the + key. If the + key is held, the units will increase by 5.
- Press and release the SET key to move to the "Year Setting".

tower icon will not appear but reception will still be attempted the following hour. attempts the WWVB tower icon will flash. If reception has been unsuccessful, then the WWVB receive the signal, it will change the manually set time into the received time. During reception The unit will still try and receive the signal every day despite it being manually set. When it does

WWVB time reception takes place from 12:00 am through 6:00 am each day (attempts WWVB reception every full hour within this time frame). When the time signal is received for example at day. WWVB reception will also be attempted upon set up and after exiting manual time set mode. Reception is generally not possible during daylight hours due to the interference of the sun. 1:00 am, the Atomic Clock will not attempt to receive the WWVB signal for the remaining hours until 6:00 am. Therefore, the next signal attempt will take place between 12:00 am and 6:00 am the next

YEAR SETTING

The year can be selected sequentially from 2000 to 2049 and will then start over again (default setting 2000). Only the last 2 digits of the year will be visible on LCD2.

The year digits will start flashing on LCD1. Select the desired year by use of the + key.

- Press and release the SET key to switch to the "Month Setting".

NTH SETTING

Press and release the SET key to move to the mode "Date Setting". The month digits on LCD2 will start flashing. Set the desired month by use of the + key

of the + key. he digits for the date will start flashing on LCD2 (Default setting 1). Set the desired date by use

date can only be set in conjunction with the selected month. For example, it is not isible to set the date 30 if the month of February is selected.

Press and release the SET key to enter the "Weekday Setting".

EKDAY SETTING

desired weekday by use of the + key The weekday symbols will be displayed on LCD2 in the pre-set language and flashing. Set the

Press and release the SET key to enter the mode "12/24 Hours Time Display Setting"

24 HOURS TIME DISPLAY SETTING

display mode by use of the + key. The "12h" or "24h" will start flashing in LCD1 (Default setting 12h). Select the desired time

Press and release the SET key to enter the "°C/°F Temperature Setting"

OR OF TEMPERATURE SETTING

Press and release the SET key to exit the setting mode and switch back to the normal display The characters "°C" or "°F" will start flashing on LCD1 (Default setting °F). By use of the + key select "°C" for temperature display in degrees Celsius or "°F" for degrees Fahrenheit.

IT THE MANUAL SETTING MODES

SNZ key anytime. To return to the normal display mode from anywhere in manual setting mode simply press the

If no keys are pressed for at least 15 seconds in setting mode, the Atomic Clock will automatically switch back to normal display mode

ALARM SETTING

- To enter into the alarm setting mode:

 1. Hold the ALM key for 4 seconds. The hour digits start flashing.

 2. Press and release the + key to set the hour.
- Press and release the ALM key to set the minutes. The minute digits start flashing
- Press and release the + key to set the minutes.

 Press and release again the ALM key to exit the Alarm setting mode or wait for 15 seconds automatic timeout.

TO DEACTIVATE THE ALARM





in normal mode display. The alarm icon will disappear, the alarm is now off The alarm will be automatically ON. To deactivate the alarm (OFF), press and release the ALM key

SNOOZE SETTING

pressing the SNZ key on the back of the clock The snooze can only be activated during alarm time for a snooze duration of 10 minutes by

OUTDOOR TEMPERATURE TRANSMITTERThe temperature is measured and transmitted to the Atomic Clock every 1 minute. The Atomic Clock will update the temperature display every 5 minutes.

positioning the transmitter. Also the batteries may be reduced in power temperatures the transmitting distance may be decreased. Please bear this in mind when The range of the Outdoor Temperature Transmitter may be affected by the temperature. At cold

3MHz RECEPTION CHECK FOR OUTDOOR TEMPERATURE TRANSMITTER

3 Atomic Clock will receive the temperature data within 4 minutes. If the temperature data is not ng received 4 minutes after setting up (the display shows "---"), then please check the following

Using other electrical products such as headphones or speakers operating on the same signal frequency (433MHz) may prevent correct signal transmission and reception. (2 meters) away from any interfering sources such as computer monitors or TV sets. Avoid placing the receiver onto or in the immediate proximity of metal window frames. The distance of the Atomic Clock or Outdoor Temperature Transmitter should be at least 6 feet Neighbors using electrical devices operating on the 433MHz signal frequency can also cause

habove) otherwise transmission problems may occur. ntacts and force a false reset. Should this happen accidentally then reset all units (see Setting atdoor Temperature Transmitter or Atomic Clock, as the batteries may spring free from the hen the 433 MHz signal is received correctly, do not re-open the battery cover of either the

ie maximum transmission range is 82 feet (25 meters) from the Outdoor Temperature Transmitter lits have to be reset (see Setting up). terference levels. If no reception is possible despite the observation of these factors, all system the Atomic Clock (in open space). However, this depends on the surrounding environment and

HANGING THE DISPLAY MODE (DAY, SECONDS, AND TEMPERATURES)

ne month&date/weekday/indoor temperature/outdoor temperature is the default here are three possible display modes to view the day, seconds, and temperatures.

change the display:

Press the + key. The display should now show the month&date/weekday/seconds/ outdoor

Press the + key a second time and the display will now show the month&date/seconds/indoor temperature/outdoor temperature.

Press the + key third time and the display will return to the normal display

Earth's lonosphere, reception is very limited during daylight hours. The Atomic Clock will search for a signal every night when reception is best. The www's radio station derives its signal from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists continually measures every WWVB RADIO CONTROLLED TIME The NIST redio station, WWVs, is teested in Ft. Colling, Controd อูกร์เ เรตารูซ์เละปลงอักร์ เขารูเยน signal continuously throughout the United States at 60 kHz. The signal เรตารูซ์เละปลงอักร์ เขารูเยน created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This Atomic Clock regulates the WWVB transmitter. Once the outdoor temperature is displayed on the Markin Clocks, the Www. Windows the clock has detocted a display will start flashing in the top center of the LCD. This indicates that the clock has detocted a miles away through the internal antenna in the Atomic Clock. However, due to the nature of the second of every day to an accuracy of ten billionths of a second a day. These physicists have radio signal and is trying to receive it. When the time code is received, the WWVB tower becomes permanently lit and the time will be displayed. If the tower icon flashes, but does not set the time or the WWVB tower does not appear at all, then please take note of the following:

- Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 6 feet (2 meters).
- Within ferro-concrete rooms (basements, superstructures), the received signal is naturally back towards the Fort Collins, Colorado, transmitter. weakened. In extreme cases, please place the unit close to a window and/ or point its front or
- During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1

distance, etc.), the time can be manually set (please refer to notes on Manual time setting, In case the Atomic Clock is not able to detect the WWVB-signal (disturbances, transmitting

DSITIONING

the Atomic Clock, and changes in elevation will result with inaccurate temperatures readings for next 12 to 24 hours. These changes will require a 12 to 24 hour wait before obtaining reliable insmitter on a North-facing wall or in any well shaded area. The maximum transmitting range is feet (25 meters) obstacles such as walls, concrete, and large metal objects can reduce the ige. Place both units in their desired location, and walt approximately 10 minutes before a. To achieve a true temperature reading, avoid mounting where direct sunlight can reach the tdoorTemperature Transmitter. It is recommended to mount the Outdoor Temperature desired location. Also, extreme and sudden changes in temperature will decrease the accuracy fore permanently mounting ensure that the Atomic Clock is able to receive WWVB signals from be directly in the rain. ansmitter is not waterproof and should not be placed anywhere it will become submerged in water manently mounting to ensure that there is proper reception. The Outdoor Temperature

ISITIONING THE ATOMIC CLOCK:

ere are two possible ways to mount the Atomic Clock use of the foldout table stands, or

wall mounting

LDOUT TABLE STAND



table stands are extended, place the Atomic Clock in an hinge) need to be folded out towards the edge. Once the Foldout are towards the edges of the Atomic Clock, and the ends (with no appropriate location. lower corners, and on both sides of the battery cover. The hinges The Foldout table stand legs are located on the backside, at the

ILL MOUNTING

- 2 ω
 - 1) Using a straightedge, horizontally space at 2-3/4 of an inch (70 mm) three screw positions on a wall.
 - Place the Atomic Clock onto the screws, using the hanging holes on the Install three mounting screws (not included) into a wall within transmission range—leaving approximately 3/16 of an inch (5mm) extended from the wall

backside. Gently pull the Atomic Clock down to lock the screws into place

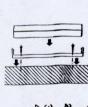
Always ensure that the Atomic Clock locks onto the screws before releasing

POSITIONING THE OUTDOOR TEMPERATURE TRANSMITTER:

The Outdoor Temperature transmitter can be mounted in two ways:

with the use of screws, or using the adhesive tape.

MOUNTING WITH SCREWS



- Remove the mounting bracket from the Outdoor Temperature Transmitter.
- Place the mounting bracket over the desired location. Through the three screw holes of the bracket, mark the maunting surface with a pansil. Where marked, start the screw holes into mounting surface.
- Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.

MOUNTING WITH ADHESIVE TAPE

- 1) With a nonabrasive solution, clean and dry the back of the hold. The mounting surface should be smooth and flat. mounting bracket and the mounting surface to ensure a secure
- 2) Remove the protective strip from one side of the tape. Adhere the tape to the designated area on the back of the mounting bracket
- 3) Remove the protective strip from the other side of the tape location, ensuring that the Atomic Clock can receive the signal Position the Outdoor Temperature transmitter in the desired

TROUBLESHOOTING

Problem:	The LCD is faint.
Solution:	Replace the batteries.
Problem:	No reception of WWVB signal
Solution:	It may help reception to face the front of the Atomic Clock in the general direction of Et Colling Coloredo
	direction of Ft. Collins, Colorado. 2) Wait overnight for signal.
	3) Be sure the Atomic Clock is at least 6 feet (2 meters) from any electrical
	4) Remove batteries for five minutes, reinsert and leave the unit alone
	100
Problem:	Hour is incorrect (minute and date are correct).
Solution:	Be sure the correct time zone and daylight saving time are selected.
Problem:	"OFL" appears in the indoor temperature section of the LCD
Solution:	 Move the Atomic Clock to an area with warmer or cooler surrounding
	temperature. Current surrounding temperatures are outside measuring
	range.
Problem:	"" appears in the outdoor temperature section of the LCD.
Solution:	 Remove the batteries of both units for one minute, then reinsert them
	again. Make sure the batteries are new and fresh.
The state of	Move the Atomic Clock closer to the transmitter or place the transmitter
	closer to the Atomic Clock. Make sure the clock is at a receivable range
	from the transmitter.
	Move the units to another location. Interferences from other electrical
2	devices operating on the same signal frequency (433MHz) may prevent
	correct signal transmission and reception.
Problem:	"OFL" appears in the outdoor temperature section of the LCD.
Solution:	 Wait until the current surrounding temperature cools down or increases.
	The outdoor temperature will be displayed again once the current
	surrounding temperature is within the range of the transmitter.

GARE AND MAINTENANGE . Avoid piscing the units in areas prone to vibration and shock as these may cause damage.

- Avoid areas where the units can be exposed to sudden changes in temperature, i.e. direct sunlight, extreme cold and wet/moist conditions as these will lead to rapid changes which reduces the accuracy of readings. reduces the accuracy of readings.
- When cleaning the LCD and casing, use a soft damp cloth only. Do not use solvents or scouring agents.
- Do not submerge the units into water.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with
- new batteries of the recommended size.

 Do not make any repairs to the units, Please contact Customer Care if your unit requires repair.

 Opening and tampering with the units may invalidate the warranty.

SPECIFICATIONSTemperature measuring range Indoor: +32°F to +122°F with 0.2°F resolution Outdoor: -21.8°F to +140°F with 0.2°F resolution Temperature checking interval ("OFL" displayed if outside this range) 0°C to +50°C with 0.1°C resolution ("OFL" displayed if outside this range) -29.9°C to +59.9°C with 0.1°C resolution

Dimensions (L x W x H) Atomic Clock: 11.41" x 0.98" x 7.48" / 290 x25 x190mm Transmitter: 1.57" x 0.9" x 5.04" / 40 x 23 x 128 mm Battery life: about 12 months Power source (Alkaline batteries recommended) Transmission distance: maximum 82 feet (25 meters) in open field, depending upon surrounding structures, mounting location and possible interfering sources Outdoor: every 5 minutes Atomic Clock: 2 x AA, 1.5V batteries Indoor: every 10 seconds Transmitter: 2 x AA, 1.5V batteries

BILITY DISCLAIMER:

ne manufacturer and supplier cannot accept any responsibility for any incorrect readings and ny consequences that occur should an inaccurate reading take place.

his product is only designed for use in the home or office.

he specifications of this product may change without prior notice. his product is not to be used for medical purposes or for public information

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

o part of this manual may be reproduced without written authorization of the manufacturer. TERIES REPLACEMENT:

sest performance, batteries should be replaced at least once a year to maintain the best ing accuracy. Ensure that the batteries used are new and the correct size.

authorized depot. Please help in the preservation of the environment and return used batteries to an

MEDION LIMITED WARRANTY

Medion warrants that the product accompanied by this limited warranty is free from manufacturing defects in material or workmanship for a period of 12 months from the date of original purchase. This warranty only applies to the original purchaser of the product. The limited warranty period also applies to any long an implied warranty lasts, so the above limitation may not apply to you. implied warranties that may exist under applicable law. Some States do not allow limitations on how

authorized service representatives), or otherwise altered. This limited warranty does also not apply to defeate resulting from misuse, assues, assues the product is defeative please return it to Medion in the manner described below within the please return it to Medion in the manner described below within the manner described below the manner described by the manner This limited warranty does not apply to products that have been opened, repaired (except by Medion or its

limited warranty period. If Medion determines a defect covered by

replacement products only through the end of the original limited warranty period in no event shall Medion or any of its distributors or resellers be that to the end of the original limited warranty periods. its option, repair or replace the product. This limited warranty extends to replace the product.

so the above limitation and exclusion may not apply to you. or its use. Some states do not allow the exclusion or limitation of incidental or consequential damas consequential damages relating to the product (including any repaired product

This limited warranty gives you specific legal rights, and you may have other rights which vary from State

To make a claim under this limited warranty you must first contact Medion Customer Care using one of RMA, please return the product as instructed by the RMA. This warranty does not apply to any products returned to Medion without a RMA. the options below to obtain a return material authorization (RMA) number. Once you have received the

To obtain a RMA please contact Medion Customer Care at:

www.medion.com

United States: 1-866-633-4660

Canada:

1-888-776-6825

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