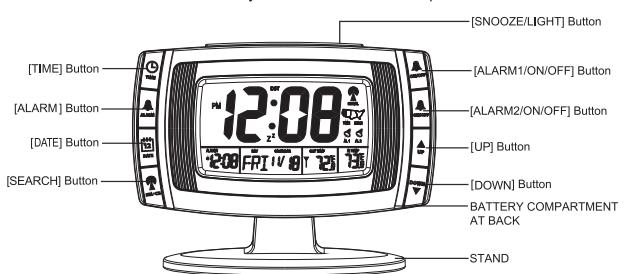


# SHARP

## Instruction Manual & Warranty

Thank you for your purchase. The utmost care has gone into the design and manufacture of your clock. Please read these instructions carefully and store them in a safe place for future reference.



### FEATURES

- Super Accurate Time – Radio controlled
- Optional 12 or 24 hour Time format
- Automatically Updates for Day Light Savings Time (DST)
- Constant Month, Day & Date Display
- Constant Indoor Temperature Display
- Constant Outdoor Temperature Display - 433MHz transmission from a wireless remote sensor (included).
- Constant Alarm Time Display
- Dual Alarm with Repeat 5 Minute Snooze
- Backlight on Demand for Nighttime Viewing
- Requires 2 "AA" Batteries for (Sensor) and 3 "AAA" Batteries for (Main Unit)

### LCD DISPLAY SYMBOLS

1. Time
2. PM Indicator
3. Alarm1/Alarm2 ON indicator
4. Time Zone Indicator
5. Daylight Savings Indicator (DST)
6. Radio signal strength indicator
7. Day of the week
8. Month
9. Date
10. Indoor temperature display
11. Outdoor temperature display
12. Alarm time display
13. 24 Hour Indicator

### INSTALLING OR REPLACING THE BATTERIES

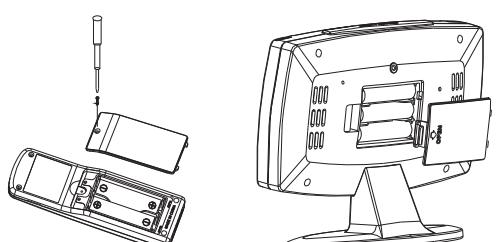
Important: Be sure to install the batteries in the remote outdoor temperature sensor **first** before installing the batteries in the clock. Alkaline batteries are recommended for both the sensor and the clock.

#### To install the batteries in the remote outdoor temperature sensor:

- Begin by unscrewing the battery compartment cover on the back of the sensor (as shown in the below diagram)
- Insert two AA batteries (not included) into the battery compartment and make sure the polarity is correct by following the (+ or -) symbols engraved inside.
- Replace the battery compartment cover.

#### To install the batteries in the clock:

- Begin by opening the battery compartment cover on the back of the clock (as shown in the below diagram)
- Insert 3 AAA batteries (not included) into the battery compartment and make sure the polarity is correct by following the (+ or -) symbols engraved inside.
- Replace battery compartment cover door.
- Replace the batteries whenever the display becomes dim or difficult to read.



#### Battery Warning:

- Do not use rechargeable batteries.
- Non-rechargeable batteries are not to be recharged.
- Different types of batteries or new and used batteries are not to be mixed.
- Only batteries of the same or equivalent type as recommended are to be used.
- Batteries are to be inserted with the correct polarity.
- Exhausted batteries are to be removed from the product.
- The supply terminals are not to be short-circuited.
- Do not dispose of batteries in fire; batteries may explode or leak.
- Adult assembly required to replace and remove batteries.

#### SELECTING THE TIME ZONE

The default time zone is Pacific Zone. If your location is not in the Pacific Time Zone, please choose the correct time zone by pressing the [SEARCH] button: P = Pacific, M = Mountain, C = Central, E = Eastern.

#### RADIO CONTROLLED TIME FEATURE

Once the batteries are installed, the clock will begin to seek out the radio signal to update the time. This typically takes approximately 8 minutes in good conditions. If after 8 minutes the signal has not been received, we recommend that you set the time manually. (See the section entitled 'Setting the Time Manually'.) After the first signal is received, the clock will automatically seek out the atomic clock signal from each evening at 3:02AM, 4:02AM, 5:02AM, 6:02AM and continues to do so each day.

### SETTING THE TIME MANUALLY

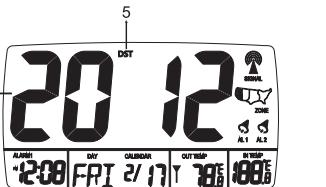
**NOTE:** It is recommended that for the first use of the clock, you set the clock manually and then allow the Radio Control signal to update the Time Setting each day.

- To set the time press and hold down the [TIME] button for 2 seconds, and release button when the hour digits will begin to blink.
- While the hour is blinking press the [UP] or [DOWN] button until you reach the desired hour. Be sure to set the time to the correct AM or PM hour shown by the indicator to the left of the time.
- Press the [TIME] button again and the minutes will begin to blink. While the minutes are blinking press the [UP] or [DOWN] button until you reach the desired minute.
- Once you have set the desired time press the [TIME] button again. The time is now set and will return to normal time keeping mode.

**Note:** In normal time keeping mode, pressing the [TIME] button will toggle between the 12 and 24 hour formats. When you are in the 24 hour format a 24 hour indicator symbol will appear above the time.

### SETTING THE CALENDAR

1. Year
2. Day
3. Month
4. Date
5. Daylight Savings Time Indicator



- To set the calendar, press and hold down the [DATE] button for 2 seconds and release button when the year will begin to blink (see the diagram above).
- While the year is blinking press the [UP] or [DOWN] button until the clock displays the correct year.
- Press the [DATE] button again, and the month will begin to blink. While the month is blinking press the [UP] or [DOWN] button until you reach the correct month.
- Press the [DATE] button again, and the date will begin to blink. While the date is blinking press the [UP] or [DOWN] button until you reach the correct date.
- Note: The day of the week and the moon phase will adjust themselves automatically depending on what year, month & date you enter.
- Once you have set the calendar press the [DATE] button again. The calendar is now set and the clock will return to normal time keeping mode.

### DAYLIGHT SAVINGS TIME (DST)

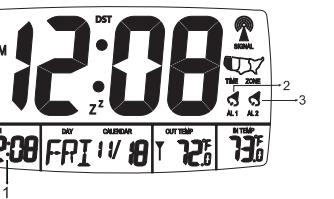
The clock has been programmed to turn on DST as defaulted. Press [UP] or [DOWN] button to change to OFF mode during the time setting. The DST will show when the clock receives the RC signal during the summer.

### SETTING THE ALARM

- In normal time keeping mode, press the [ALARM] button to toggle between both Alarm 1 time and Alarm 2 time
- Press the [ALARM] button until the alarm you would like to set (1 or 2) is shown on the display.
- To set the alarm time, press and hold the [ALARM] button for 2 seconds. The alarm hour will begin to blink.
- While the alarm hour is blinking press the [UP] or [DOWN] button until you reach the desired alarm hour. Be sure to set the alarm time to the correct AM or PM setting shown by the indicator to the left of the alarm time (see the diagram above).
- Press the [ALARM] button again and the alarm minutes will begin to blink. While the alarm minutes are blinking press the [UP] or [DOWN] button until you reach the desired alarm minute.
- Once you have set the desired alarm time press the [ALARM] button again. The alarm time is now set and the clock will return to normal time keeping mode.

**Note:** To set the 2<sup>nd</sup> alarm press the [ALARM] button until the 2<sup>nd</sup> alarm time is shown on the display. Follow the steps above to set the 2<sup>nd</sup> alarm time.

1. Alarm Time
2. Alarm 1 ON Indicator
3. Alarm 2 ON Indicator
4. Alarm PM
5. Alarm (1/2) Time Indicator



### USING THE ALARM AND SNOOZE FUNCTION

- To activate alarm 1, press the [ON/OFF] button. The following symbol will appear above the time (AL1)
- To activate alarm 2, press the [ON/OFF] button. The following symbol will appear above the time (AL2)
- To deactivate either alarm, simply press the [ON/OFF] or [ON/OFF] buttons and the symbol above the time will disappear.

**Note:** The snooze function will be automatically activated after activating the alarm.

- To activate the snooze function when the alarm sounds, just press the [SNOOZE/LIGHT] button. The alarm will stop sounding and then sound again in 5 minutes. This can be repeated up to 12 times after which the alarm will not sound again until the following day.
- When the Alarm sounds, the LED backlight will stay on for 5 seconds.

### INDOOR AND OUTDOOR TEMPERATURE FEATURES

Your clock is programmed to display both the indoor and outdoor temperature in both Celsius (°C) and Fahrenheit (°F) format. Below is a summary of each function and how it operates.



### INDOOR TEMPERATURE

Your clock will display the current indoor temperature (see the diagram above)

- To switch the temperature between Celsius (°C) and Fahrenheit (°F) simply press and release the [DATE] button.

### OUTDOOR TEMPERATURE

#### Setting up the outdoor sensor

Your clock will display the current outdoor temperature (see the diagram above) via a wireless outdoor remote sensor (included). To set up the outdoor sensor follow these steps:

- When you first set up your clock be sure to place the two AA batteries (not included) into the outdoor sensor first before placing batteries into the clock.
- Begin by opening the battery compartment cover on the back of the clock (as shown in the above diagram).
- Insert three AAA batteries (not included) into the battery compartment and make sure the polarity is correct by following the (+ or -) symbols engraved inside.
- Replace battery compartment door.
- Replace the batteries whenever the display becomes dim or difficult to read.

**Note:** The outdoor temperature is updated approx. every minute.

#### Using the outdoor temperature feature

Once you have placed the batteries in both the outdoor sensor and the clock, the clock will begin searching for the signal from the outdoor sensor. If a signal is received a (Y) symbol will briefly appear above the channel indicator on the display and the outdoor temperature will be shown. If a signal is not received a (--) will appear on the display. If you are not able to receive a signal from the sensor please read the section below entitled "Outdoor sensor troubleshooting."

#### Placement of the outdoor sensor

You should place the outdoor sensor within approx. 90 feet of the clock. Obstacles such as: walls, concrete and large metal objects can reduce the range. Reception can also be determined by the materials in a building. Try some different areas to see where your sensor is best suited to send a clear signal to the clock. Wait approximately 15 minutes before permanently mounting to ensure that there is proper reception.

#### Using the table stand or wall-mounting stand

The receiver and transmitter have three mounting structures:



- For the receiver, place the screw on the desired wall and hang the receiver by the recessed hole at the back of the clock or just simply place it on the desktop by the table stand.
- For the transmitter, fix the separate wall-mounting stand outside in the area protected from direct rain by the screw. Once the stand is mounted, place the transmitter into the stand on the wall. You can place it on the desktop by its table stand.

### Outdoor Sensor Troubleshooting

If you set up your clock correctly and the outdoor temperature reading is showing (--) then you need to manually have the clock search for the signal. Follow these steps to search for the sensor signal:

- Press the [UP] button for 2 seconds. The (Y) symbol on the display will begin to blink as the clock seeks out the signal. If the signal is still not received check the following:
  - Are the batteries in the clock ok?
  - Are the batteries in the sensor ok?
  - Is the transmitter located too far from the clock (read the section above entitled PLACEMENT OF THE OUTDOOR SENSOR)
  - Is the temp. outside below freezing? At temps below freezing the output of the batteries, and therefore the range of the signal, may decrease considerably. As the temperature rises the signal strength will increase.
  - Is the clock positioned too close to a TV set or computer? Try changing the location of the clock.
  - Other radio controlled appliances such as automatic garage door openers, alarm systems or wireless headphones can interfere with the reception.
- If the signal is still not received, place the sensor as close as possible to the clock and repeat the above steps. This will help the clock find the signal and ensure synchronization with the sensor.
- If none of the above works then you will need to reset both the clock and the sensor. To reset the clock and sensor press the reset button on the back of the clock by inserting a straightened wire (paperclip for ex.) into the hole at the back of the clock. Do the same to the hole in the battery compartment of the sensor. After you have reset both the clock and the sensor please proceed to set up your clock again from the beginning of this manual.

### RADIO CONTROL FEATURE

**NOTE:** At any time, you can press and hold the [SEARCH] button for 2 seconds to make the clock seek the atomic radio signal and set itself automatically. The signal strength indicator will blink on the display as the clock seeks out the signal.

The National Institute of Standards and Technology (NIST) is located in Fort Collins, Colorado. The NIST continuously broadcasts the time signal (WWVB, 60KHz) which can be received anywhere in the continental United States where long wave (AM) radio reception is possible. The signal can reach approximately 2,000 miles through the internal antenna in the Radio Controlled Clock. However, due to the nature of the Earth's atmosphere, reception is very limited during the daylight hours. The radio control clock will search for a signal every night when reception is best.

When the WWVB tower icon on the clock flashes, this indicates that the clock is receiving the radio signals from the WWVB radio station. When the time code is received the WWVB tower icon turns on and the time of the selected time zone will be displayed. If only part of the WWVB tower icon turns on or the WWVB tower does not appear at all and the time is not yet set, please take note of the following:

- We recommend keeping the minimum distance of 8 feet from any interfering source like TV's or computer monitors.
- Within concrete rooms (basements, superstructures, office buildings), the received signal will be weakened. In extreme cases, the unit should be placed close to a window and/or point the clock face or back towards the Fort Collins, Colorado.
- During the night, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy within 1 second.

**NOTE:** It is recommended that for the first use of the clock, you set the clock manually and then allow the Radio Control signal to update the time setting each day.

### CARE OF YOUR CLOCK

- Replace the battery promptly when necessary and store the clock without batteries when not in use.
- It is time to replace the batteries when the LCD display becomes dim.
- Clean your clock with a soft cloth or paper towel. Do not use corrosive cleaners or chemical solutions on the clock.
- Avoid putting the clock in a highly humid environment such as poolside or in a bathroom.
- Do not expose the clock to direct sunlight, extreme hot or cold temperatures.

### FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### For Customer Service Please Call Toll Free at 1-(800)-221-0131 and ask for Customer Service. Monday-Friday 9:00 AM - 4:00 PM EST

Please call for assistance before returning the clock to the store.

### One Year Limited Warranty

M.Z. Berger & Company warrants the original consumer purchaser of this product that it shall be free of defects in materials and workmanship for one year from the purchase date of this product. Defects caused by tampering, improper use, unauthorized modifications or repairs, immersion in water or abuse are not covered by this warranty. If a defect covered by this warranty occurs during the warranty period, wrap your clock carefully and send it to the following address:

M.Z. Berger Service Center  
29-76 Northern Boulevard  
Long Island City, NY 11101

You must include a Proof of Purchase, either the original receipt or a photocopy and a check or money order for USD \$6.00 to cover the cost of handling. Also include your return address inside the package. M.Z. Berger will repair or replace the clock and return it to you. M.Z. Berger will not be liable for any loss or damage, including incidental or consequential damages of any kind; from any breach of warranty either expressed or implied relating to the product. Since some states do not allow the exclusion or limitation of incidental or consequential damages, this limitation may not apply to you.

Printed in China

Model SPC711

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