

SHARP®

Atomic QA Wall Clock Instructions & Warranty

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

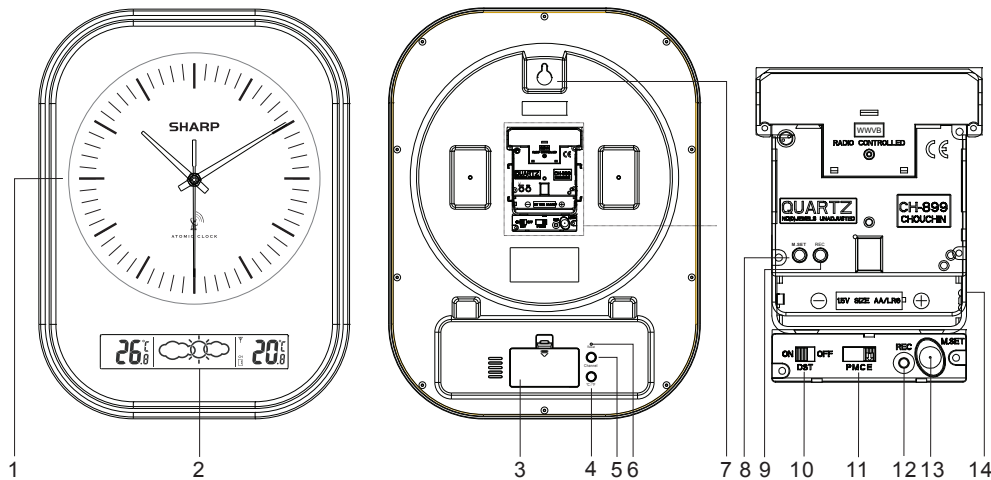
The receiver unit has a clear, easy-to-read display that shows indoor temperature, outdoor temperature and 12 hour weather forecast. The remote sensor transmits the outdoor temperature. To receive the outdoor temperature, place the sensor anywhere within 100 feet; the 433.92MHz technology means no wire installation is required.

The Atomic Clock will always be accurate to within one second as it receives daily WWVB updates. Daylight Saving Time also automatically updates so there is no need to re-set the clock manually!

IMPORTANT: If the Atomic Clock does not receive the WWVB signal immediately, wait overnight and it will be set in the morning.

The clock has a built in receiver that automatically synchronizes itself with the WWVB radio signal broadcast by the US Government's National Institute of Standards & Technology (NIST) in Fort Collins, Colorado. The WWVB radio signal daily broadcast ensures that the atomic clock will always display the most accurate date and time.

FEATURES:



Atomic QA Clock

1. QA Clock:

- Before inserting the battery, select the Time Zone and DST mode (Daylight Savings Time). Once battery is inserted, the second hand will run and stop at zero position (12:00), and then the minute and hour hands will start running and stop at zero position. Then, the clock begins to receive the Atomic time signal automatically and it will take 3 - 10 minutes. If successfully receive the signal, the hands will find their correct time and work normally.

NOTE:

1. The unit will automatically search for the time signal at 2:16am, 4:16am, 2:16pm, 4:16pm.
2. Closed area such as airport, basement, tower block or factory is not recommended.
3. While the atomic signal is flashing, the control panel is inactive.

2. LCD WEATHER FORECAST DISPLAY

- Displays indoor/outdoor temperature and 12 hour weather forecast;
Sunny, Sunny Intervals, Cloudy, Rain, Rain + Thunder, Snow

3. BATTERY COMPARTMENT AND DOOR:

- Use 2 x AA size batteries

4. °C/°F BUTTON:

- In normal mode, press the button to switch temperature unit °C/°F.

5. Channel BUTTON:

- In normal mode, press the button to switch the between channel 1, 2 and 3 to receive the 433.92MHz signal; press and hold the button for 3 seconds to pair with the outdoor remote sensor.

6. Reset BUTTON:

- In case of malfunction, press RESET button to reset all values to default values.

7. WALL MOUNT

8. M. SET (Manual Set) BUTTON:

- In normal mode, press and hold the M.SET button, second hand will stop and enter into manual setting. Keep pressing the M.Set button, the minute hand will run quickly. Release the button to exit the manual setting and the clock will start running within a few seconds.

9. REC (Force Receiving) BUTTON:

- In normal mode, press and hold the REC button, the hands will stop running and enter into Force Receiving mode. It will start receiving the Atomic time signal within 10 minutes. Once received the signal successfully, the clock hands will found the correct time and run normally. Otherwise, it will return to the time before Force Receiving. If the Atomic signal is not received wait over night and it will be set in the morning.

10. DST ON/OFF SWITCH:

- Before insert the battery, select the DST mode. The clock has programmed to automatically switch when the daylight saving time is in effect.

11. TIME ZONE SWITCH:

- Before insert the battery, select the correct time zone. The default time zone is P (Pacific Time). If your location is not in the Pacific, slide the time zone switch to M (Mountain Time) / C (Central Time) / E (Eastern Time) zone.

12. REC BUTTON:

- Function same as No. 9

13. M. SET BUTTON:

- Function same as No. 8

14. BATTERY COMPARTMENT AND DOOR:

- Use 1 x AA size battery

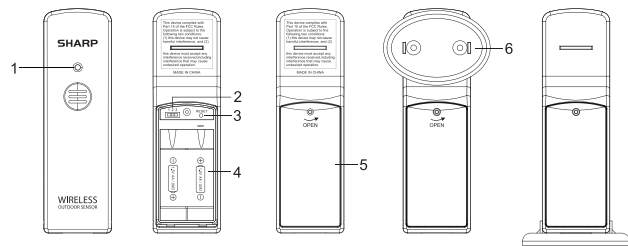
LCD WEATHER FORECAST DISPLAY

NOTE:

1. The accuracy of a general pressure-based weather forecast is about 70% - 75%.
2. The weather forecast is meant for next 12 hours. It may not necessarily reflect the current situation.
3. The "Sunny" icon, when applied to nighttime, implies clear weather.

Sunny		Rain	
Sunny Intervals		Rain + Thunder	
Cloudy		Snow	

Remote Transmitter



1. LED INDICATOR:

- LED flashes when the remote unit transmits a reading.

2. CHANNEL SLIDE SWITCH (inside battery compartment):

- Assign the transmitter to channel 1, 2 or 3 to receive 433.92MHz signal

3. RESET BUTTON:

- Press it to restart the transmitter and return all values to default values.

4. BATTERY COMPARTMENT:

- Use 2 x AA Size batteries.

5. BATTERY DOOR

6. WALL MOUNT

SETTING UP THE TRANSMITTER:

1. Remove the battery door and insert 2 AA batteries into the battery compartment and follow the polarities marked.
2. Slide the switch to Channel 1. Press the RESET button to set the transmitter.
3. Press the CHANNEL button at the back of the clock to set channel 1.
4. Lock the transmitter battery door with the screw.
5. Place the units away from metal objects and electrical appliances to minimize interference. Position the receiver within the effective transmission range 100 feet in usual circumstances.
6. If Channel 1 signal is not received properly, change the transmitter slide button to Channel 2 or 3. Press CHANNEL button of the clock to 2 or 3 respectively. Press and hold the CHANNEL button for three seconds. The unit will start to find the new channel.

NOTE:

1. To receive the transmitter signal, the channels of receiver and transmitter must match each other.
2. Once the channel is assigned to transmitter, you can only change it by removing the batteries or resetting the unit.

SUGGESTION:

Make sure you read the instructions before operating this clock. We have developed this sophisticated instrument for the best reception performance; however, the signal transmitted from USA Atomic Clock transmitter will be affected in certain situations. We advise you to note the following instructions:

1. It is strongly recommended to start this clock at night and let the clock receive the signal automatically past midnight.
2. Always place the unit away from interfering sources such as TV set, computer, etc.
3. Avoid placing the unit on or next to metal plates.
4. Areas with access to windows is recommended for better reception.
5. Do not start reception in moving articles such as vehicles or trains.

BATTERY REPLACEMENT:

If the low battery indicator appears beside the outdoor temperature of main unit, it indicates that the transmitter batteries need replacement. If the low battery indicator is displayed at the top left corner, it indicates that the atomic clock batteries need replacement.

NOTE:

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

BATTERY WARNING:

- Clean the battery contacts and also those of the device prior to battery installation. Follow the polarity (+) and (-) to place battery.
- Do not mix old and new batteries.
- Do not mix Alkaline, Standard (Carbon - Zinc), or Rechargeable (Nickel - Cadmium) batteries.
- Incorrect battery placement will damage the clock movement and battery may leak.
- Exhausted battery is to be removed from the product.
- Remove batteries from equipment which is not to be used for an extended period of time.
- Do not dispose of batteries in fire. Batteries may explode or leak.

USING THE WALL MOUNT:

The transmitter has the desktop and wall mounting structure.

- For the Atomic Clock, use the recessed hold on the back of the clock to hang it.
- For the Transmitter, hang or place the separate wall-mounting part in an area protected from direct rain. Once the stand is mounted, place the transmitter into the stand on the wall.

SPECIFICATIONS:

MAIN UNIT

Recommended operating range: 0°C to 45°C, 32°F to 113°F
Resolution: 0.1°C/F (above 0°C/32°F), 1°C/F (below 0°C/32°F)
Humidity measuring range: 20% RH to 95%RH
Recommended operating range: 20% RH to 95%RH
Resolution: 1%RH
Radio controlled signal: WWVB

REMOTE TRANSMITTER

Recommended operating range: -50°C to 70°C, -122°F to 158°F
Resolution: 0.1°C/F (above 0°C/32°F), 1°C/F (below 0°C/32°F)
Humidity measuring range: 20% RH to 95%RH
Operating range: 20% RH to 95%RH
Resolution: 1%RH
RF transmission frequency: 433.92MHz
Remote transmitter: 1 unit
RF transmission range: maximum 100 ft.
Temperature sensing cycle: around 50 seconds

POWER

Main unit: 1.5V, use 1 x AA 1.5V alkaline battery (for clock movement)
3V, use 2 x AA 1.5V alkaline battery (for LCD display)
Remote transmitter: 3V, use 2 x AA 1.5V alkaline battery

NOTE

Changes or Modifications not expressly approved by the party responsible could void the user's authority to operate this device.

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.

**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
or Email at custserv_clocks@mzb.com**

Due to seasonal demands, support response times may vary up to 3 to 5 business days. Your request is important. We listen to every voice mail & read every email. In an effort to reduce support times, we encourage you to submit your request online which is 2 to 3 times faster than phone support. Please call or email 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:

MZ 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.

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