REMOTE TRANSMITTER

Recommended operating range:	-30°C to 66°C,-21.8°F to 150°F
RF transmission frequency:	433.92 MHz
Remote transmitter:	1 unit
RF transmission range:	maximum 100 feet
Temperature sensing cycle:	around 50 seconds

POWER

Main unit:	4.5V, use 3 x AA 1.5V alkaline battery
Remote transmitter:	3V, use 2 x AAA 1.5V alkaline battery

DIMENSION

Main unit:	22.2(W) x 20.2(H) x 2.3(D)cm
	8.74(W) x 7.95(H) x 0.90(D)inch
Remote transmitter:	4.0(W) x 9.8(H) x 2.5(D)cm
	1.6(W) x 3.9(H) x 1(D)inch

MAIN UNIT

Recommended operating range:	0°C to 45°C, 32°F to 113°F
Calendar range:	from year 2019 to 2099
Radio controlled signal:	WWVB

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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**If customer service is needed, please email custserv_clocks@mzb.com
or call toll free at 1-800-221-0131 and ask for Customer Service.
Monday-Friday 9:00AM - 4:00 PM EST**

SHARP®
Atomic 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 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.

The receiver unit has a clear, easy-to-read display that shows indoor temperature, outdoor temperature,time, month, date, day. 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.
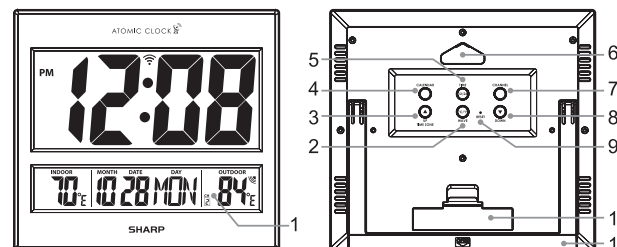
The Atomic Clock will always be accurate to within one second as it receives daily WWVB updates. Daylight Saving Time also automatically updates so there is no need to re-set the clock manually!

IMPORTANT: If the Atomic Clock does not receive the WWVB signal immediately, wait overnight and it will be set in the morning.
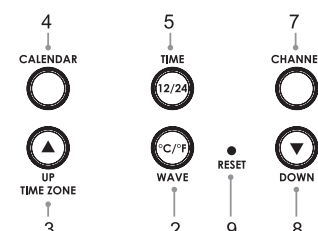
QUICK START GUIDE:
1. Insert batteries into the wireless sensor. In the battery compartment, set the Channel to number 1.
2. Insert batteries into the clock.
3. Set the clock to receive Channel 1 for the outdoor temperature. The Channel button is at the back of the clock.
4. The default for Daylight Savings Time (DST) is ON. If you do not observe DST turn it off in TIME setting.
5. Choose your time zone. Default is Eastern.
6. Now you can either set the time and calendar manually OR wait until the clock receives the atomic signal (RCC). The signal is usually received overnight but it will begin looking for the signal after the first 10 minutes of receiving power. During the day there is a lot of interference and that is why the signal is often received overnight. Once the clock receives the atomic signal and all of the clock settings are in place, the time and date will be automatically updated.

ATOMIC CLOCK   **BUTTONS SHOWN LARGER**

1. CLOCK DISPLAY:
- Displays time in hours and minutes; calendar display of month, date & day, indoor temperature; outdoor temperature; signal strength indicator; daylight savings (DST).

2. °C/°F / WAVE:
- In normal mode, press the button to switch the temperature unit °C/°F.
- In normal mode, press and hold for 2 seconds to search for the RCC (atomic signal) immediately
- During the RCC receiving period, press and hold for 2 seconds to stop the RCC reception.

3. UP / TIME ZONE:
- In **TIME** or **CALENDAR** setting mode, press the **UP** button to increase the setting values. Hold the button down to rapidly change values.
- In normal mode, press the **TIME ZONE** button to switch between time zones. **EST** will flash in the **DAY** position of the display. Press the **TIME** button to confirm your time zone or wait 10 seconds for the time zone to stop flashing. EST (EASTERN), HST (HAWAII), AKT (ALASKA), PST (PACIFIC), MST (MOUNTAIN), CST (CENTRAL)

4. CALENDAR:
- In normal mode, press and hold for 2 seconds to manually set the calendar. Use the **UP** or **DOWN** buttons to change the value of each calendar setting. Set Sequence: YEAR > MONTH > DATE > LANGUAGE Press **CALENDAR** to confirm each calendar setting.

5. 12/24 / TIME:
- In normal mode, press the button to switch from 12 to 24 hour time display.
- In normal mode, press and hold for 2 seconds to manually set the time. Use the **UP** or **DOWN** buttons to change the value of each time setting. Set Sequence: RCC ON/OFF > DST(Daylight Savings Time) ON/OFF > HOUR > MINUTE Press **TIME** to confirm each time setting.

6. WALL MOUNT

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

8. DOWN BUTTON:
- In **TIME** or **CALENDAR** setting mode, press the **DOWN** button to decrease the setting values.
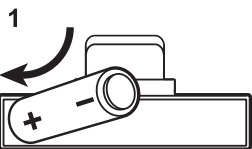
9. RESET BUTTON:
- In case of malfunction, press the button to reset all values to default factory settings.
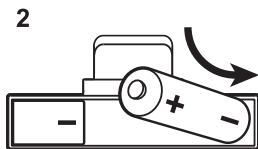
10. BATTERY COMPARTMENT DOOR:
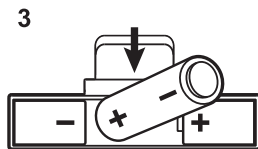- Use 3 AA size batteries (Duracell® Recommended)

11. TABLE STAND

LOADING BATTERIES INTO THE CLOCK

1

2

3

With the "−" facing right, slide the first battery all the way into the battery compartment on the left side.
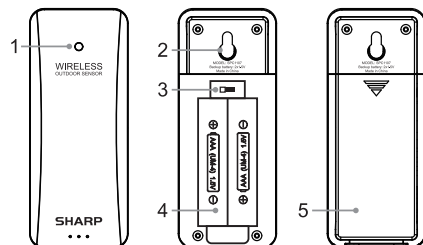
With the "−" facing right, slide the second battery all the way into the battery compartment on the right side.

With the "−" facing right, fit the third battery into the center of the battery compartment & close the cover.

REMOTE TRANSMITTER

1 — WIRELESS OUTDOOR SENSOR
2
3
4
5

SHARP
• • •

1. CHANNEL BUTTON:
- LED Flashes when the remote unit transmits a reading

3. WALL MOUNT

3. CHANNEL SWITCH (inside battery compartment):
- Assign the transmitter to channel 1, 2 or 3 to receive 433.92MHz signal.

4. BATTERY COMPARTMENT:
- Uses 2 AAA size batteries.

5. BATTERY DOOR

SETTING UP THE TRANSMITTER:
1. Remove the battery door and insert 2 AAA batteries into the battery compartment and follow the polarities marked.
2. Slide the switch to Channel 1.
3. Press the CHANNEL button at the back of the clock to set channel 1.
4. Replace the battery door of the transmitter.
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 two 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.

SETTING UP THE ATOMIC CLOCK:
1. Remove the battery door from the back of the wall clock and insert 3 AA batteries. Insert them according to the marked polarity.
2. Replace the battery door.

SIGNAL STRENGTH INDICATOR:
The signal indicator displays signal strength in 4 levels. Wave segment flashing means time signals are being received.

NOTE:
1. The unit will automatically search for the time signal at 1:00am (2:00am, 3:00am, 4:00am, 5:00am is also available if the signal was not received at 1:00am)
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.

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.

DAYLIGHT SAVING TIME (DST):
The clock has programmed to automatically switch when the daylight saving time is in effect. Your clock will show DST during the summer time if you turn on the DST.

TIME ZONE SETTING
In normal mode, press the **TIME ZONE** button to switch between time zones. **EST** will flash in the **DAY** position of the display. Press the **TIME** button to confirm your time zone or wait 10 seconds for the time zone to stop flashing.
EST (EASTERN), HST (HAWAII), AKT (ALASKA), PST (PACIFIC), MST (MOUNTAIN), CST (CENTRAL)

MANUAL TIME SETTING
In normal mode, press and hold for the **TIME** button for 2 seconds to manually set the time. Use the **UP** or **DOWN** buttons to change the value of each time setting. Set Sequence: **RCC ON/OFF** > **DST**(Daylight Savings Time) **ON/OFF** > **HOUR** > **MINUTE**
Press **TIME** to confirm each time setting.

MANUAL CALENDAR SETTING
In normal mode, press and hold for 2 seconds to manually set the calendar. Use the **UP** or **DOWN** buttons to change the value of each calendar setting. Set Sequence: YEAR > MONTH > DATE > LANGUAGE
Press **CALENDAR** to confirm each calendar setting.

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.