SHARP

RADIO CONTROLLED
WIRELESS WEATHER STATION

Instruction manual

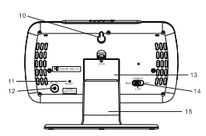
Thank you for your purchase. The utmost care has gone into the design and manufacture of your clock. Please read these instructions carefully and keep them for future reference.

The weather station is equipped with many functions providing weather information to you. The receiver unit has a clear, easy-to-read display that shows the weather forecast, barometric pressure, indoor temperature & humidity, time, month, date, day, dual alarm as well as the outdoor temperature & humidity measured and transmitted from the remote sensor.

The 915 MHz technology means no wire installation is required and you can place the sensor anywhere you like within 100 meters.

With radio controlled function, the current time and date are automatically synchronized with the time signal transmitted from U.S.A (WWVB).

MAIN FEATURES:
WEATHER STATION:



1. ALARM 1 ON/OFF button:
   Press it to switch on/off alarm1.
2. ALARM 2 ON/OFF button
   Press it to switch on/off alarm2.
3. 12H/24H button
   Press it to switch 12 hour / 24 hour.
   Press and hold it for 2 second to enter the receiving humidity and temperature data from the transmitter.
4. °C/°F button
   Press it to switch between Celsius and Fahrenheit.
   Press and hold it for 2 second to receive the time signal manually.
5. SET button
   Press and hold it for 2 second to enter the time setting mode.
   Press it to switch between hour/minute/year/month/date/DST.
6. UP button
   In setting mode, press it to increase the setting value.
   Press it to switch the time zone P/M/C/E.
7. DOWN button
   In setting mode, press it to decrease the setting value.
   Press it to change the forthcoming 12/24 hours forecast and last 12/24 hours barometric pressure.
   Press and hold it for 2 seconds to switch between hPa and inHg.
8. ALARM SET button
   Press it to change the alarm 1/alarm 2 display.
   Press and hold it for 2 seconds to enter previous alarm setting.
   Press it to switch minute setting from hour.
9. SNOOZE button:
   Press it once to turn on the backlight for 5 seconds.
   Press it to stop the current alarm when it is sounding and enter the snooze mode.
10. WALL-MOUNTING HOLDER:
    Use it to support the main unit on the wall.
11. RESET:
    Press it to reset all values to default values.
    In case of malfunction, the unit may be required to reset.
12. DC Adaptor:
    Connect the DC adaptor 5V.
13. BATTERY COMPARTMENT:
    Accommodates 3 x AA Asize batteries (alkaline batteries recommended).
14. BACKLIT DIMMER Switch:
    Slide switch to select backlit HIGH/LOW/OFF.
15. TABLE STAND:
    Support the main unit on the desktop.
16. FUTURE FORECAST window
    Shows the weather forecast for coming 12 and 24 hours.
17. OUTDOOR temperature & humidity window
    Shows current outdoor temperature and humidity.
18. INDOOR temperature & humidity window
    Shows current indoor temperature and humidity.
19. BAROMETRIC PRESSURE window
    Displays the current barometric pressure data and indicates the barometric.
    Pressure in the past 12/24 hours.
20. CLOCK & CALENDAR window
    Displays clock time, alarm time and calendar.

TRANSMITTER:
1. RESET:
   Press it to restart the transmitter and return all values to default values.
2. BATTERY COMPARTMENT:
   Accommodates 2 x AA size batteries.
3. BATTERY DOOR
4. WALL-MOUNTING HOLDER:
   Use it to support the transmitter on the desktop.
5. TABLE STAND:
   Use it to stand the transmitter on the desktop.

BEFORE USING THE TRANSMITTER
1. Remove the transmitter from the stand and open the battery door.
2. Insert 2 x AA size batteries into the battery compartment.
   Make sure you insert them the right way according to the polarity information (+/-) marked on the battery compartment.
3. The receiver can receive humidity and temperature data.
4. Replace the battery door.

NOTE:
Avoid placing the transmitter in direct sunlight, rain or snow.

SETTING UP THE WEATHER STATION
1. Remove the battery door and insert 3 x AAA size batteries into the battery compartment. Make sure you insert them the right way according to the polarity information (+/-) marked on the battery compartment.
2. Replace the battery door.
3. Press the "RESET" button on the back of the clock with a pin or paperclip to re-start the clock. The clock will synchronize with the transmitter set automatically.
4. The antenna " " flashes when the clock receives outdoor sensor signal.

NOTE:
1. The building material and the position of receiver and transmitter affect the effective range. Try various locations to obtain the best result.
2. Place the units away from metal objects and electrical appliances to minimize interference. Position the receiver and transmitter within the effective transmission range: 30 meters in usual circumstance. It is recommended to keep the transmitter within 30 meters to achieve the best reception.

RECEPTION OF RADIO CONTROLLED TIME SIGNAL
The time and date are radio-controlled. The current time and date are automatically synchronized with the time signal transmitted from U.S.A (WWVB).
When used for the first time (after inserting the batteries or pressing the "RESET" key), the clock will start to receive the transmitter signal. It will start to receive RC signal 3 minutes after.

RC SIGNAL STRENGTH INDICATOR
The signal indicator displays signal strength in 3 levels. Wave segment flashing means time signals are being received. The signal quality could be classified into 3 types:

If the RC clock receives signal successfully, a sync-time symbol " " will appear on the LCD.
The unit has already synchronized with the time sign transmitter.Otherwise the segment will disappear from the LCD display

NOTE:
You may use the "°C/°F" key to receive the time signal manually. Press "°C/°F" button for 2 seconds. Be cautious of using the RECEIVE mode, which will consume more battery power and thus may reduce the battery lifetime. The RECEIVE mode will be off automatically within 10 minutes.

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.

TIME AND CALENDAR SETTING
If you are out of reach of the Radio Controlled transmitter or if the reception is poor, the time and calendar can be set manually. Once the signal of transmitter is received again, the clock will automatically synchronize with the exact time and calendar.
1. In normal time mode, press and hold the "SET" key for 2 seconds to enter the time setting mode.
2. Press the "UP" or "DOWN" key to change the value of the flashing Hour digit.
3. Repeat the above operations to set time and calendar in this order: Hour > Minute > Year > Month > Date > DST.
4. The time zone setting are represented by the below abbreviations:
   P=Pacific M=Mountain C=Central E=Eastern

5. Press "SET" key to save and exit the setting mode. Or let it exit automatically 30 Seconds later without pressing any key.

DAYLIGHT SAVINGS TIME (DST)
The clock has been programmed to turn on DST as defaulted. Press UP/DOWN key to change to OFF mode during the time setting.
The DST will show when the clock receives the RC signal during the summer.

ALARM AND SNOOZE SETTING
1. In normal time mode, press "ALARM SET" key once to select the alarm1 or alarm2.
2. In alarm1 mode, press and hold "ALARM1 ON/OFF" key for 2 seconds Until alarm Hour digit flashes.
3. Press "UP" or "DOWN" key to change the Hour value.
4. Press "ALARM SET" key once to jump setting the Minute.
5. Press "UP" or "DOWN" key to change the Minute value.
6. Press "ALARM SET" key to save and exit the alarm setting mode.
7. Repeat the above operation to set the alarm2.

USING ALARM & SNOOZE FUNCTIONS
1. Set the alarm time as described in the previous section.
2. Press "ALARM1 ON/OFF" button to show alarm1 on display. Press again to turn off alarm1.Press "ALARM2 ON/OFF" to show alarm2. Press again to turn off alarm2.
3. When the alarm sound is on, press the SNOOZE button to activate the SNOOZE mode. The alarm will repeat in every 5 minutes . The SNOOZE function can be repeated 12 times.

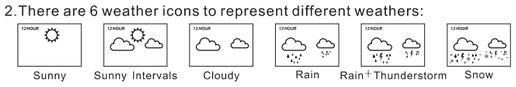
NOTE:
The alarm time is not changeable when the SNOOZE is on.

BAROMETRIC PRESSURE
1. There are 3 arrows barometric pressure trend. The icons indicate the barometric pressure trends of forthcoming 12/24 hours.

Arrow indicator			
Pressure trend	Rising	Steady	Falling

2. Current barometric pressure indicates the existing reading. Press and hold" " button for 2 seconds to change hPa/inHg.
3. Previous barometric pressure indicates the reading in the last 12/24 hours. Press " " button once to change 12/24 hours.

FUTURE FORECAST
1. Press "DOWN" button once to change the forthcoming 12/24 hours Forecast.
2. There are 6 weather icons to represent different weathers:



NOTE:
1. The accuracy of a general pressure-based weather forecast is about 70% to 75%.
2. The weather forecast is meant for next 12 to 24 hours. It may not necessarily reflect the current situation.
3. The "Sunny" icon, when applied to nighttime, implies clear weather.

INDOOR AND OUTDOOR TEMPERATURE & HUMIDITY RECORDS
Change the temperature unit to °C for Celsius or °F for Fahrenheit by pressing the "°C/°F" key.

NOTE:
1. If no signal are received or the transmission is interfered, "-- --" will appear on the LCD.
2. Relocate the clock or transmitter in other positions and make sure the transmission is within the effective range of 100 meters approx.
3. After several trials in vain, please reset the clock. Reposition the weather station where the reception is the best.

LOW BATTERY INDICATOR
1. When the clock main unit is not in adaptor mode and the batteries do not have enough power, the low battery indicator will be displayed in the lower right corner to remind you for replacing new battery.
2. The indicator at the lower left corner will be displayed when the outdoor transmitter battery power is not enough and you should replace batteries.

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

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.

SPECIFICATION

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
Pressure measuring range:	850mb to 1050mb
Pressure sampling cycle:	60 minutes
Calendar range:	from year 2000 to 2099
Radio controlled signal:	WWVB

ADAPTOR

INPUT:	120VAC 60Hz 55mA
OUTPUT:	5VDC 200mA

REMOTE SENSOR

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:	917MHz
Remote sensor:	1 unit
RF transmission range:	maximum 100 meters
Temperature sensing cycle:	around 30 seconds

POWER

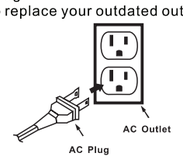
Main unit:	4.5V, use 3 x AAA 1.5V alkaline battery
Remote sensor:	3V, use 2 x AA 1.5V alkaline battery

DIMENSION

Main unit:	227(W)x161(H)x82(D)
Remote sensor:	42(W)x136(H)x25(D)

Note:
When the AC power cord is connected to the outlet, the power source automatically switches to AC. You may leave batteries inside the unit if desired. There is no battery consumption when the power cord is connected to an AC outlet.

Caution
This weather station is designed to operate on normal 120V 60Hz AC power only. Do not attempt to operate the weather station on any other power source. You could cause damage to the weather station that is not covered by your warranty.
This weather station uses a polarized AC plug which has one blade wider than the other. This plug will only fit into a polarized AC outlet. This is a safety feature. If the plug will not fit, you may have an older non-polarized AC outlet. Do not defeat the safety feature by trying to file the wider blade, or replacing the plug.
Contact an electrician to replace your outdated outlet.



IMPORTANT NOTES
Avoid installing this unit in places exposed to direct sunlight or close to heat radiating appliances such as electric heaters, on top of other stereo equipment that radiates too much heat, places lacking ventilation or dusty areas, places subject to constant vibration and/or humid or moist areas.
Operate controls and switches as described in the manual.
Before turning on the power, make certain that the AC power cord is properly installed.
When moving the set, be sure to first disconnect the AC power cord.

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
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. The Caution Marking maybe located at the bottom enclosure of the apparatus.

The Caution Marking maybe located at the bottom enclosure of the apparatus.

IMPORTANT SAFETY INSTRUCTIONS
1.) Read these instructions. Keep these instructions. Follow all instructions. Heed all warnings.
2.) Do not use this apparatus near water.
3.) Clean only with dry cloth.
4.) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5.) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
6.) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7.) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8.) Only use attachments / accessories specified by the manufacturer.
9.) Unplug this apparatus during lightning storms or when unused for long periods of time.
10.) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11.) This appliance shall not be exposed to dripping or splashing water and no object filled with liquids such as vases shall be placed on the apparatus.
12.) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13.) Do not overload wall outlet. Use only power source as indicated.
14.) Use replacement parts as specified by the manufacturer.
15.) The product may be mounted to a wall only if recommended by the manufacturer.
16.) Upon completion of any service or repairs to this product, ask the Service technician to perform safety checks.

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:

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.

Printed in China **Model** SPC775

SHARP registered in the U.S. Patent and Trademark Office.

17. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.