RF Projection Barometer
With Remote Thermo Sensor

Model No.: BAR338PA

User's Manual

INTRODUCTION

Congratulations on your purchasing the BAR338PA RF Projection Barometer.

The BAR338PA is a multifunctional radio frequency (RF) controlled projection calendar clock that automatically synchronizes current time and date with the RF signal broadcast by the US Atomic Clock, one of the world's most accurate timekeepers.

The BAR338PA is very easy to use. No wire installation is required between the main unit and the remote unit.

Other features of BAR338PA include: weather forecast display, indoor and remote temperature display and daily alarm function.

MAIN UNIT CONTROLS

1
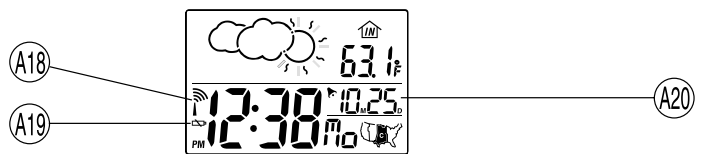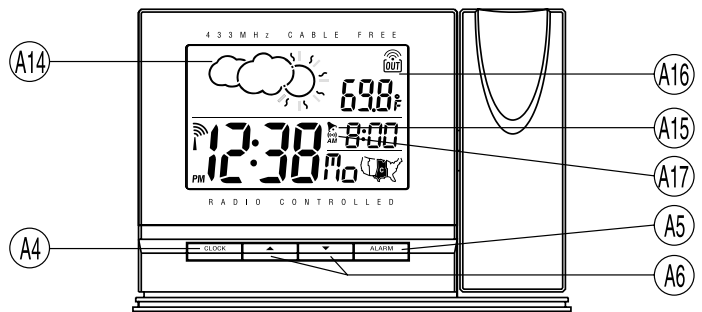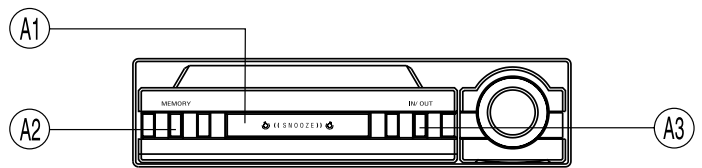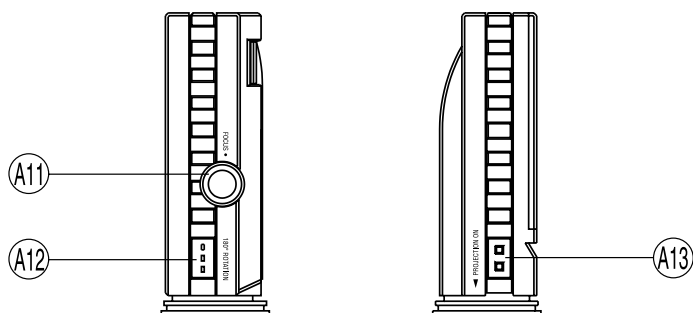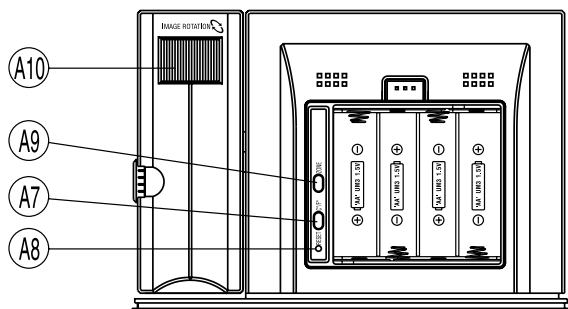
A1 SNOOZE / LIGHT BUTTON

Enables the snooze alarm feature when the alarm is sounding; also activates the backlight feature for five seconds

A2 MEMORY BUTTON

Sequence through temperature display selections of current, maximum and minimum temperatures

A3 IN/OUT BUTTON

Changes between indoor and outdoor temperature

A4 CLOCK BUTTON

Alternates between the time seconds display and the day-of-the-week display; also enables the clock setting mode

A5 ALARM BUTTON

Displays the alarm set time or activates the alarm function

A6 UP [▲] AND DOWN [▼] BUTTONS

Increases or decreases the value of a setting

A7 °C/°F BUTTON

Selects between degrees Centigrade (°C) and Fahrenheit (°F)

A8 RESET BUTTON

Clears the user selected settings and causes the settings of the main display unit to return to the factory default settings

A9 ZONE BUTTON

Sequence through the 4 US time-zones of Pacific, Mountain, Central and Eastern

PROJECTOR CONTROLS

A10 IMAGE ROTATION KNOB ↻

Rotates the projected time image 90 degree in clockwise or counter-clockwise direction

A11 FOCUS KNOB

Adjusts the focus of the projected time image

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A12 180° ROTATION BUTTON

Flips the projected time image upside-down

A13 PROJECTION ON SLIDE SWITCH

Activates continuous projected time image function when used with the included AC power adapter

MAIN UNIT INDICATORS

A14 WEATHER FORCAST ICONS

Graphically displays general weather forecast 12-24 hours in the future

A15 ALARM ON INDICATOR

Appears when the alarm is active

A16 IN/OUT INDICATOR

Indicates outdoor or indoor temperature

A17 ALARM TIME INDICATOR

Appears when the alarm time is displayed

A18 RADIO RECEPTION SIGNAL

Identifies the strength of signal received from the US Atomic Clock

A19 BATTERY-LOW INDICATOR

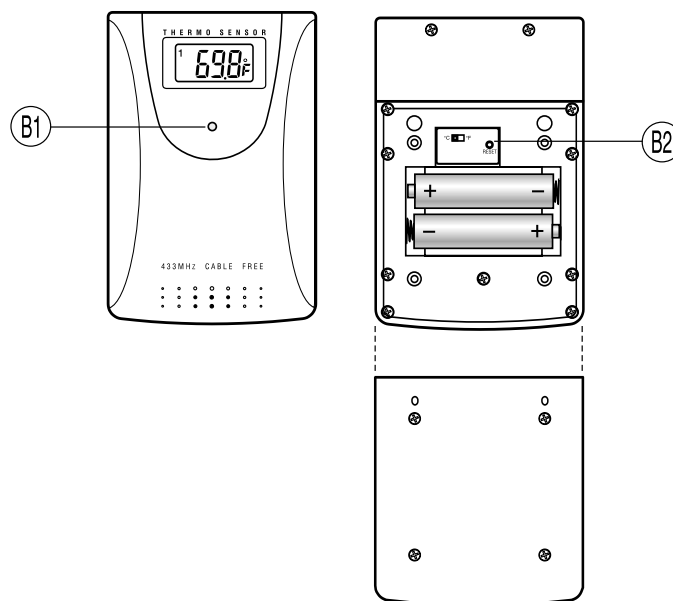When displayed indicates that batteries are low and need to be replaced

A20 M/D INDICATOR

Indicates month-day (MD) calendar display

REMOTE UNIT CONTROLS

B1   LED INDICATOR

Flashes when the remote unit transmits a reading

B2   RESET BUTTON

Clears the user selected settings and causes the settings of the remote sensor to return to the factory default settings

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HINTS FOR BEST OPERATION

- Insert batteries in the remote unit before doing so for the main unit.

- Position the main and remote unit within the transmission range (20 to 30 meters; 65.5 - 100 feet).

- Position the remote unit away from direct sunlight, rain or snow.

- After battery installation, the main unit will search for signal from the remote unit. Upon successful receipt of signal, the remote temperature reading received will be displayed on the main unit. Should the signal reception between the main unit and the remote sensor be unsuccessful, shorten the distance between them and/or reposition the main unit and/or the sensor so they are in a more direct line of sight to one another.

BATTERY INSTALLATION

1. Remove the battery compartment door.

2. Insert two AA-sized batteries (included) for the remote unit or four AA-sized batteries (included) for the main unit. Batteries are to be inserted with polarities in the direction shown in the diagram on page 3 for the remote sensor unit and page 4 for the main display unit.

3. Press **[RESET]**.

4. Replace the battery compartment door.

MAIN UNIT
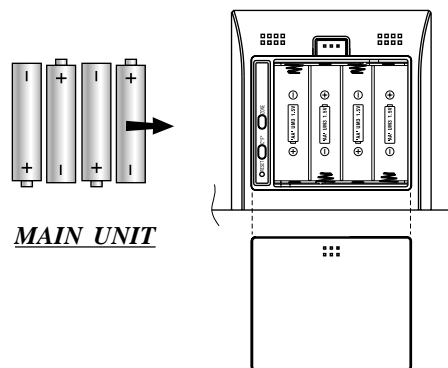
HOW TO USE THE PROJECTOR

The BAR338PA includes a projection function that projects the current time and remote sensor temperature onto a wall, ceiling or other flat surface.

To project the time-temperature onto a flat surface:

In a darkened room, press [**SNOOZE / LIGHT**], the projection will activate for approximately 5 seconds.

This unit has several features to enhance the clarity of the projected image.

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Projector Features		
Feature	**Effect**	**Instructions**
Adjustable Projector	Rotates 180° to cast image onto any wall	Adjust by pivoting forwards or backwards the projector, so that the projection lens is pointed in the appropriate direction
FOCUS Knob (A11)	Focuses image	Rotate knob forwards or backwards until the image clarity is optimized
[🗘] **IMAGE ROTATION knob (A10)**	Rotates image on a given surface to maintain an upright position	Turns an image to maintain an upright position
180° ROTATION button (A12)	Horizontally flips an image on a given surface to maintain an upright position	Flips an image to maintain an upright position

HOW TO USE THE PROJECTOR POWER ADAPTER

Your BAR338PA comes with an AC power adapter. For continuous projection the AC power adapter must be used. To install the adapter:

1. Unscrew the cover at the bottom of the stand.
2. Plug the adapter into the adapter socket.
3. Connect the power adapter to a wall socket.
4. Slide **[PROJECTION ON]** to ON.
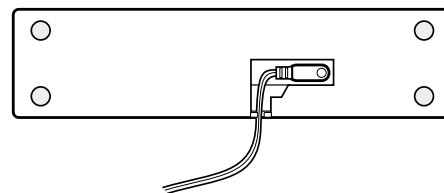
To turn off the projector, slide the **[PROJECTION ON]** back. Note that this switch can only be used with the power adapter connected. For momentarily projection, use **[SNOOZE/LIGHT]**.

HOW TO USE THE BACKLIGHT

Press the **[SNOOZE/LIGHT]** button once. The backlight will light up on the LCD Display and around the key panel for five seconds. Projection will also be on for five seconds.

DISPLAY MODES

In normal display mode, the current time, including seconds, will be displayed. To display weekday, press **[CLOCK]** once. To switch back to normal time display, press **[CLOCK]** once.

To display the daily alarm time, press **[ALARM]** once when the date is displayed. To display the date, press **[CLOCK]** once when alarm time is displayed.

The temperature and weather forecast will be shown in all display modes.

ABOUT RADIO RECEPTION

The BAR338PA is designed to synchronize current time and date information via radio frequency signals from the US Atomic Clock, one of the world's most accurate timekeepers.

After batteries are installed in the main unit, press ZONE to select the appropriate US time zone of Pacific, Mountain, Central or Eastern. Note that the appropriate time zone needs to be selected each time if the BAR338PA is moved from one time zone to another.

When the unit is receiving radio signal, the reception icon will start to blink. The reception icon will show either strong, weak or no signal depending on the strength of the radio signal. A complete reception generally takes about two to 10 minutes.
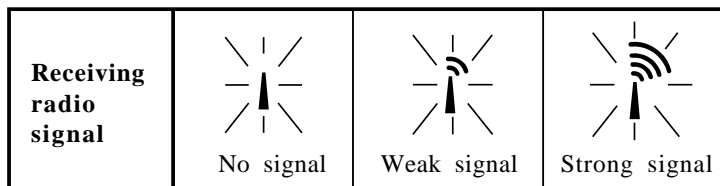
When the reception is completed the reception icon will stop blinking. The reception icon will show " | " for no reception or " ℝ " for successful reception.
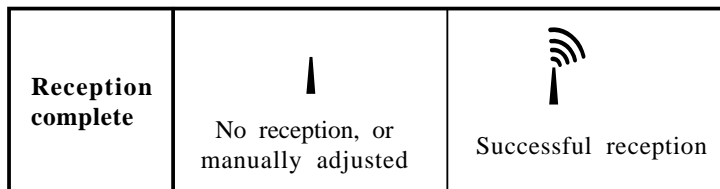
For best signal reception, position the BAR338PA away from PC's, radios, TV's, microwave ovens and other appliances that emit or receive radio frequency signals. Should the BAR338PA be new and just out of the box, allow up to 72 hours for the unit to receive the initial signal reception. To facilitate signal reception, poisitioning on a windowsill is recommended.

HOW TO SELECT THE TIME-ZONE

After batteries are installed in the main display unit, press [ZONE] to select the appropriate US time zone of Pacific, Mountain, Central or Eastern. Note that the appropriate time zone needs to be selected each time if the BAR338PA is moved from one time zone to another.

The **[ZONE]** button is located inside the battery compartment. Press **[ZONE]** button to select among the 4 US time-zones: Pacific, Mountains, Central or Eastern.

HOW TO MANUALLY SET THE CALENDAR CLOCK

When travelling outside of the US Atomic Clock signal reception range, the BAR338PA can be manually set to operate as a quartz clock. Note that setting the clock manually will disable the signal reception and synchronization function. To set the clock manually:

1. Press and hold **[CLOCK]** for two seconds.

2. Enter the hour using the **[▲]** or **[▼]** buttons. Hold down either button to rapidly increase or decrease the value.

3. Press **[CLOCK]**.

4. Enter the minute using the **[▲]** or **[▼]** buttons.

5. Press **[CLOCK]**.

6. Follow the same procedure to set the year, month, day and display language. For the display language, you can choose English, French or Spanish.

HOW TO SET THE ALARM

1. Press and hold **[ALARM]** for two seconds.

2. Enter the hour using the **[▲]** or **[▼]** buttons.

3. Press **[ALARM]**.

4. Enter the minutes using the **[▲]** or **[▼]** buttons.

5. Press **[ALARM]**.

The alarm is automatically activated after the setting procedure. To deactivate it, press **[ALARM]** to turn off the **[ ]** indicator when the alarm time is displayed.

ALARM AND SNOOZE FUNCTION

When the alarm is activated, it will go off at the set time. The display will light up for five seconds and the **[ ]** icon will flash.

The crescendo function allows the alarm to start off gently and with its intensity in four steps. Without interruption, the alarm will sound for a minute.

To stop the alarm, press **[ALARM]**. If the **[SNOOZE/LIGHT]** button is pressed, the SNOOZE function will be triggered. The alarm will stop for eight minutes before going off again.

INDOOR AND OUTDOOR TEMPERATURES

Press **[IN/OUT]** to toggle between indoor temperature and outdoor temperature.

Press **[°C/°F]** to display the temperature in Centigrade °C or Fahrenheit °F.

MAXIMUM AND MINIMUM TEMPERATURES

Press **[IN/OUT]** to select indoor or outdoor temperature display. Then press **[MEMORY]** repeatedly to scroll through current maximum and minimum temperatures recorded.

To clear the memory, select indoor or outdoor temperature display. Then press and hold **[MEMORY]** for two seconds to clear the memory for the selected display.
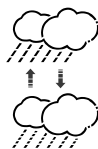
INTERRUPTED SIGNALS

If without obvious reasons the display for the outdoor temperature becomes blank, press and hold **[IN/OUT]** for two seconds to enforce an immediate signal search. If that fails, check if the remote unit is still in place. Make sure the transmission is within range and path is clear of obstacles and interference. The maximum transmission range between the remote sensor and the main display unit is 90 feet (28 meters).

TRANSMISSION COLLISION

Signals from household devices, such as doorbells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature readings will resume once the interference recedes.

WEATHER FORECAST

The unit is capable of detecting barometric pressure changes, and basing on the data collected, can provide a general weather forecast for the next 12 to 24 hours. The effective range is 30 to 50 km (18.6 - 31 miles).

sunny	partly cloudy	cloudy	rainy	snow

NOTE:

1. *The accuracy of a general pressure-based weather forecast is about 70 to 75%, and therefore, cannot be held responsible for any inconveniences so caused by an inaccurate forecast.*

2. *The weather forecast is meant for the next 12 to 24 hours. It may not necessarily reflect the current situation.*

3. *The "Sunny" icon, when appears at nighttime, implies clear weather.*

4. *When temperature goes equal or below $3^{O}C$ (+37.4 ^{O}F), the snow icon will display instead of the rainy icon.*

LOW BATTERY WARNING

When it is time to replace batteries, the low-battery indicator will appear. Replace the batteries for the main unit when the indicator appears on the clock window. Do the same for the remote unit when the indicator appears below the OUT icon.

CAUTION: Batteries contain dangerous chemicals and may leak, explode or otherwise cause injury and damage if not hadled properly. Do not mix old batteries with new as this may result in leakage. Only insert batteries with the polarities in the directions as shown in this manual. Always dispose of batteries properly.

THE RESET BUTTON

The **[RESET]** button is used to enhance synchronization of signals after battery replacement. Note that when RESET is pressed all user-selected settings will be cleared and the unit will return to its factory set default settings. Use a blunt stylus to hold down the button.

MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water, dry it immediately with a soft lint-free cloth.

2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.

3. Do not subject the unit to excessive: force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.

4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.

5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.

6. Read this instruction manual thoroughly before operating the unit.

SPECIFICATIONS

Temperature Measurement

Main unit

Operating range	: 23.0°F to 122.0°F (-5.0°C to +50.0°C)
Temperature resolution	: 0.1°F (0.1°C)

Remote unit

Operating range	: -20.0°C to +60.0°C (-4.0°F to 140.0°F)
Temperature resolution	: 0.1°F (0.1°C)
RF Transmission Frequency	: 433 MHz

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Maximum Transmission : 90 feets (28 meters)
Range between Main
Display Unit and
Remote Sensor

Temperature sensing cycle : approximately 30 seconds

Radio Controlled Clock

Clock : 12hr format with hh:mm:ss

Calendar : Month / Day
weekday selectable in
3 language (E, F, Sp)

Alarm : 2 minutes crescendo

Snooze : 8 minutes

Power

Main unit : 4 pcs UM-3 or "AA" 1.5V
alkaline battery (included)

AC/DC 3V power adapter
(For continuous projection)
(included)

Remote sensing unit : 2 pcs UM-4 or "AA" 1.5V
alkaline battery (included)

Weight

Main unit : 47 gm (11.27 ounces)

Remote sensing unit : 48 gm (3.5 ounces)

Dimension

Main unit : 109 x 158 x 39 mm
4.36" x 6.32" x 1.56"
(H x W x D)

Remote sensing unit : 105 x 70 x 22 mm
4.2" x 2.8" x 0.88"
(H x W x D)

CUSTOMER ASSISTANCE

Should you have questions about this project or require additional assistance, please contact our 24-7-365 customer service department at 800-853-8883 or via email at helpme@oscientific.com.

WARRANTY

Oregon Scientific, Inc. warrants this product from manufacturing defects for a period of 90-days from date of retail purchase. Direct return of defective product to the place of retail purchase. Should this not be possible, contact our customer service department to secure a Return Material Authorization. A RMA is required prior to returning product to Oregon Scientific, Inc. Please keep your receipt as proof of purchase as the receipt maybe required to substantiate when purchased. Oregon Scientific, Inc. reserves the right to replace or repair product at its discretion. This product contains no user-serviceable parts or components. This warranty does not cover product subjected to tampering, abuse, misuse or accidental damage.

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NOTE ON COMPLIANCE

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC:

NOTE: 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 unit.

☐ Increase the separation between the equipment.

☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.

☐ Consult the dealer of an experienced radio/TV technician for help.

CAUTION

— The content of this manual is subject to change without further notice.

— Due to printing limitation, the displays shown in this manual may differ from the actual display.

— The contents of this manual may not be reproduced without the permission of the manufacturer.

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