

# RF Projection Barometer

## With Remote Thermo Sensor

Model No.: BAR338P (UK VERSION BAR338PU)

User's Manual

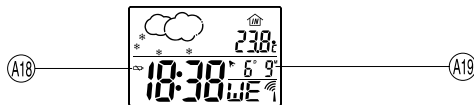
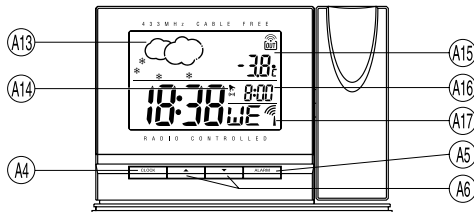
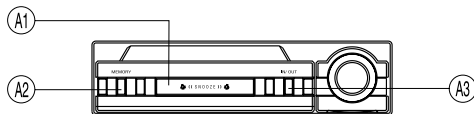
### INTRODUCTION

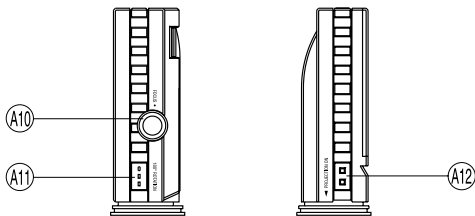
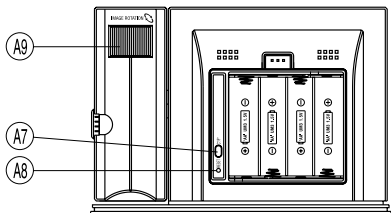
Congratulations on your purchasing the BAR338P RF Projection Barometer.

The BAR338P is a multifunction, RF-controlled projection calendar clock which automatically synchronizes its current time and date when brought within an approximate 1500 km radius of the radio signal generated from Frankfurt, Germany (DCF77). (The UK version from MSF Ruby, England)

The BAR338P is very easy to use. No wire installation is required between the main unit and the remote unit.

### MAIN UNIT CONTROLS





#### A1 SNOOZE/LIGHT BUTTON

Activates the snooze function when an alarm goes on or turns on the backlight for five seconds

#### A2 MEMORY BUTTON

Displays the current temperature and the recorded maximum (MAX) and minimum (MIN) temperatures

#### A3 IN/OUT BUTTON

Changes between indoor and outdoor temperature or activates the temperature automatic scan function

#### A4 CLOCK BUTTON

Toggles the clock and calendar display or triggers the calendar clock setting mode

#### A5 ALARM BUTTON

Displays the alarm time or sets the alarm status

#### A6 UP [▲] AND DOWN [▼] BUTTONS

Increases or decreases the value of a setting

#### A7 °C/°F BUTTON (For model BAR338PU only)

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

#### A8 RESET BUTTON

Resets the unit by returning all settings to their default values

### PROJECTOR CONTROLS

#### A9 IMAGE ROTATION KNOB

Rotates the projected image 90 degree clockwise or anti-clockwise

#### A10 FOCUS KNOB

Adjusts the focus of the projector

#### A11 180° ROTATION BUTTON

Flips the projected image upside-down

## A12 PROJECTION ON SLIDE SWITCH

Used with the projector power adapter to enable extended use of the projector

## MAIN UNIT INDICATORS

### A13 WEATHER FORECAST

Indicates the change of weather pattern

### A14 ALARM ON INDICATOR

Appears when the alarm is active

### A15 IN/OUT INDICATOR

Indicates outdoor or indoor temperature

### A16 ALARM TIME INDICATOR

Appears when the alarm time is displayed

### A17 RADIO RECEPTION SIGNAL

Indicates the condition of radio reception

### A18 BATTERY -LOW INDICATOR

Appears when the batteries are running dry

### A19 D/M INDICATOR

Indicates day-month (DM) calendar display

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## REMOTE UNIT CONTROLS

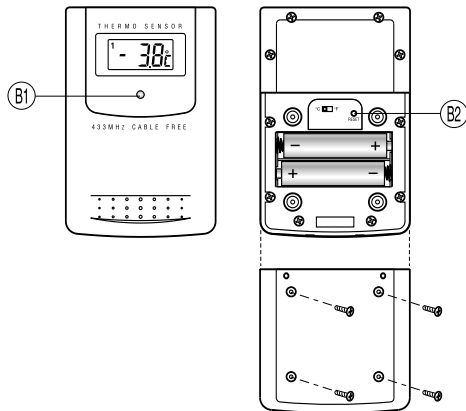
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### B1 LED INDICATOR

Flashes when the remote unit transmits a reading

### B2 RESET BUTTON

Returns all settings to default values

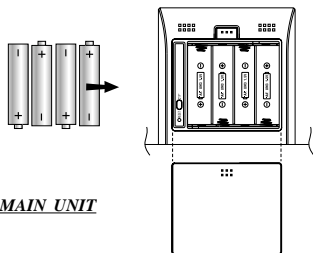


## HINTS FOR BEST OPERATION

- Insert batteries for the remote unit before doing so for the main unit.
- Set the main and remote unit within range (20 to 30 meters).
- Try different set-ups for best transmission and reception.
- Position the remote unit away from direct sunlight, rain or snow.

## BATTERY INSTALLATION

1. Remove the battery compartment door.
2. Insert two AAA-sized batteries for the remote unit or four AA-sized batteries for the main unit.
3. Press **[RESET]**.
4. Replace the battery compartment door.



## HOW TO USE THE PROJECTOR


The projector projects the current time and remote temperature onto a wall or ceiling.



### To project the time-temperature onto a flat surface:

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

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

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

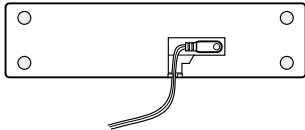
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## HOW TO USE THE PROJECTOR POWER ADAPTER

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Your unit comes with a power adapter for using the projector for extended period of time, such as throughout the night. To install the adapter,

1. Remove the cover on 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 installed. For momentarily projection, use **[SNOOZE/LIGHT]**.

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## HOW TO USE THE BACKLIGHT

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Press the **[SNOOZE/LIGHT]** button once. The backlight will light up for five seconds.

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## DISPLAY MODES

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In normal display, the current time, including seconds, will be displayed. To display the days-of-the-week, press **[CLOCK]** once. To switch back to normal time display, press **[CLOCK]** once.



To display the daily alarm time, press [ALARM] once when 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.

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## ABOUT RADIO RECEPTION

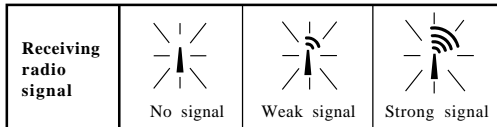
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The BAR338P is designed to automatically synchronize its current time and date when brought within range of the DCF77 RF signal.

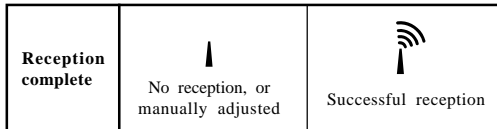
(UK version within a 1500km radius of radio signal (MSF) from Ruby, England)

When the unit is within range, its radio-control mechanism will override all manual settings.

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 "☎" for successful reception.




For better reception of radio signals, place the clock away from metal objects and electrical appliances to minimize interference.

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## HOW TO ENABLE OR DISABLE AUTO-RECEPTION

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If you wish to disable the auto-reception feature while the unit is within range, hold down the [▲] and [▼] buttons simultaneously for two seconds. The [☎] signal will disappear. The unit will NOT respond to radio signals.

To enable the feature again, hold down the buttons again. The [  ] signal will start blinking to initiate reception automatically.

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## HOW TO MANUALLY SET THE CALENDAR CLOCK

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
1. Press [CLOCK] for two seconds.
2. Enter the months using the [▲] or [▼] buttons. Hold down either button to rapidly increase or decrease the value.
3. Press [CLOCK].
4. Enter the days using the [▲] or [▼] buttons.
5. Press [CLOCK].
6. Follow the same procedure to set the display language and day-of-week, hour and minute. For the display language, you can choose English, German, French, Italian or Spanish.

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## HOW TO SET THE ALARM

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1. Press and hold [ALARM] for two seconds.
2. Enter the hours 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.

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## ALARM AND SNOOZE FUNCTION

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

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

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

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## INDOOR AND OUTDOOR TEMPERATURES

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Press [IN/OUT] repeatedly for indoor temperature, outdoor temperature or an automatic scan of both temperatures.

When the automatic scan function is activated, the indoor and outdoor temperatures will be displayed alternately for a few seconds each. To end the scan, press [IN/OUT].

Press [°C/°F] to display the temperature in Centigrade °C or Fahrenheit °F. (For model BAR338PU)

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## MAXIMUM AND MINIMUM TEMPERATURES

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Press [IN/OUT] to select indoor or outdoor temperature display. Then press [MEMORY] repeatedly to scroll on the current temperature and the maximum and minimum temperatures in record.

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.

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## DISCONNECTED SIGNALS

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If without obvious reasons the display for the outdoor temperature becomes blank, press and hold **[IN/OUT]** for two seconds to enforce an immediate 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.

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## TRANSMISSION COLLISION

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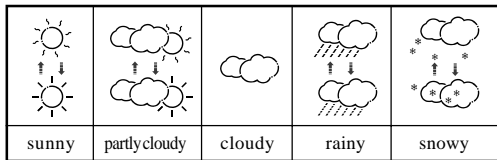
Signals from household devices, such as doorbells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature readings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

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## WEATHER FORECAST

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The unit is capable of detecting barometric pressure changes, and basing on the data collected, can predict the weather for the next 12 to 24 hours. The effective range is 30 to 50 km.



### 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°C (+37.4 °F), the snowy icon will display instead of the rainy icon.

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## LOW BATTERY WARNING

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



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## THE RESET BUTTON

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The [RESET] button is used to enhance synchronization of signals after battery replacement or when the unit is operating in an unfavorable way or malfunctioning. Use a blunt stylus to hold down the button. All settings will return to their default values.

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## PRECAUTIONS

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This unit is engineered to give you years of satisfactory service if handled carefully.

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials.
3. Do not subject the unit to snow or excessive force, shock, dust, temperature or humidity.
4. Do not tamper with the unit's internal components.
5. Do not mix new and old batteries or batteries of different specifications.

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## SPECIFICATIONS

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### Temperature Measurement

#### **Main unit**

Operating range	: -5.0°C to +50.0°C (23.0°F to 122.0°F)
Temperature resolution	: 0.1°C (0.2°F)

#### **Remote unit**

Operating range	: -20.0°C to +60.0°C (-4.0°F to 140.0°F)
Temperature resolution	: 0.1°C (0.2°F)
RF Transmission Frequency	: 433 MHz
RF Transmission Range	: Maximum 30 meters
Temperature sensing cycle	: around 30 seconds

### Radio Controlled Clock

Clock	: 24hr format with hh:mm:ss (DCF version) 12hr format with hh:mm:ss (MSF version)
Calendar	: Day / Month day-of-week selectable in 5 language (E, D, F, I, Sp)
Alarm	: 2 minutes crescendo
Snooze	: 8 minutes

### Power

Main unit	: 4 pcs UM-3 or "AA" 1.5V alkaline battery AC/DC 3V power adapter (For continuous projection)
Remote sensing unit	: 2 pcs UM-4 or "AAA" 1.5V alkaline battery

### **Weight**

Main unit : 322 gm

Remote sensing unit : 100 gm

### **Dimension**

Main unit : 109 x 158 x 39 mm (H x W x D)

Remote sensing unit : 92 x 60 x 21 mm (H x W x D)

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## **NOTE ON COMPLIANCE**

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This product complies with standards and specifications of BZT, FCC and article number 334 of PTT.

**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.

**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 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 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 manufacturer and its suppliers held no responsibility to you or any other person for any damage expenses, lost profits, or any other claim arise by using this product.
- The contents of this manual may not be reproduced without the permission of the manufacturer.