Multi digital clock radio with soothing sounds

MODEL: BARM123A
USER'S MANUAL

INTRODUCTION

BARM123A is a multi-functional device with:

-   Digital-tuning AM/FM Radio

-   Auto-synchronizing Radio Controlled Clock by radio signal from the U.S. Atomic Clock

-   Indoor and Remote Thermometer with memories for Maximum and Minimum readings

-   Weather Forecaster with Pressure Trend Indicator

-   Soothing Sounds with a choice of 6 natural sounds

PACKAGE

In the package you will find the following items:

-   1 x Main Unit (BARM123A)

-   1 x Remote Thermo Sensor (THR268) with wall mount bracket & table stand

-   1 x Detachable Vibrating Alarm

-   1 x 8 V AC/DC Adapter

KEYS CONFIGURATION & FEATURES

MAIN UNIT (BARM123A)

TOP KEY PANEL

T1. [SNOOZE/LIGHT] button

-   Press to activate the EL back-light of the LCD Display for 5 seconds

-   Press to stop the alarm sound and activate the 8-minute Snooze function

T2. [SLEEP] button

-   Press to turn on the Radio and activate the Sleep Timer function

-   Press to select the sleep-timer (auto-off) feature for 15, 30, 60, 90 or 120 minutes

T3. [ALARM ON/OFF ⏰] button

-   Press to select between Alarm-On and Alarm-Off status in the corresponding Alarm-time display mode

T4. [POWER ⏻] button

-   Press to turn on and off the Radio/Soothing Sounds Function

T5. [RADIO/SOUND] button

-   Press to toggle between Radio or Soothing Sounds Function when Power is On

T6. [STATION] button

-   Press to switch among the 8 preset radio stations in the respective AM/FM Radio band when the Radio is On

-   Press and hold for 2 seconds to enter the preset radio station setting mode when Radio is On

T7. [AM/FM] button

-   Press to toggle between AM or FM radio band

T8. [TUNING ▲] button

-   Press to increase the frequency setting when Radio is On

-   Press and hold for 2 seconds to trigger radio auto-search function when Radio is On

T9. [TUNING ▼] button

-   Press to decrease the frequency setting when Radio is On

-   Press and hold for 2 seconds to trigger radio auto-search function when Radio is On

FRONT KEY PANEL

F1. [ALARM] button

-   Press to change to Alarm-time display mode from other display modes

-   Press to toggle between Alarm 1 and Alarm 2 in the Alarm-time display mode

-   Press and hold for more than 2 seconds to enter the setting modes of alarm time and alarm-sound mode

F2. [CLOCK] button

-   Press to toggle between the calendar clock display modes

-   Press to change back to Calendar display mode in the Alarm-time display mode

-   Press and hold for more than 2 seconds to enter setting modes for 12-/24-hour display format, Hour, Minute, display language of week-of-day, calendar display format (mm:dd:yy or dd:mm:yy), year, month and day

F3. [VOLUME ▲] button

-   Press to increase the volume when Radio or Soothing Sounds is On (8-step volume settings)

-   Press to increase the values in the setting modes

-   Press to toggle between "Beep Alarm" or "Radio Alarm" mode in the corresponding alarm-time setting mode

-   Press and hold for 2 seconds to activate the auto-reception of radio signal for RF clock manually when Radio or Soothing Sounds is off

F4. [VOLUME ▼] button

-   Press to decrease the volume when Radio or Soothing Sounds is On (8-step volume settings)

-   Press to decrease the values in the setting modes

-   Press to toggle between "Beep Alarm" or "Radio Alarm" mode in the corresponding alarm-time setting mode

-   Press and hold for 2 seconds to deactivate the auto-reception of radio signal for RF clock manually when Radio or Soothing Sounds is off

F5. [SELECT] button

-   Press to toggle among the 6 natural Sounds modes when Soothing Sounds is On
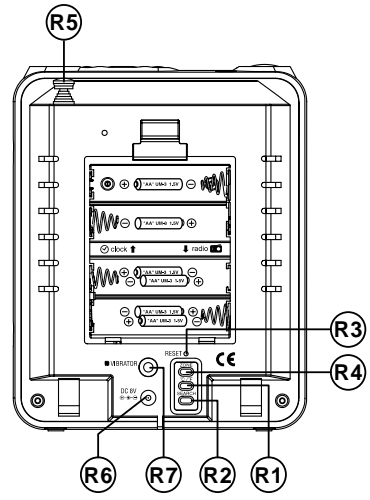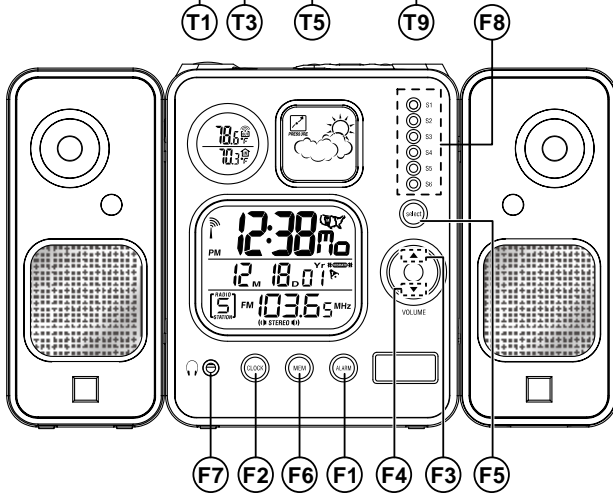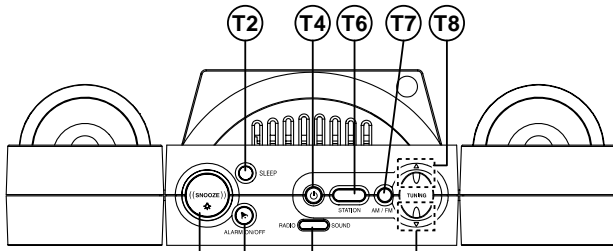
F6. [MEM] button

- Press to toggle among the current, maximum and minimum indoor and remote temperature records

- Press and hold for 2 seconds to clear the maximum or minimum temperature records

F7. Headset Jack

- Connection Jack for optional headset (not included)

F8. LED

REAR KEY PANEL

R1. [°C / °F]

- Press to select °C or °F temperature display unit

R2. [SEARCH] button

- Press and hold for 2 seconds to activate search for remote thermo signal from sensor

R3. [RESET] button

- Press to reset all values to their default settings

R4. [ZONE]

- Press to toggle ammg the 4 US time-zones: Pacific (P), Mountain (M), Central (C) or Eastern (E)

R5. Extendable Antenna
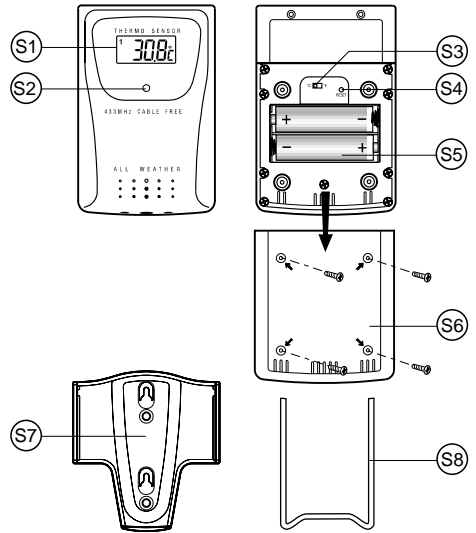
- External Antenna for FM Radio

R6. Power Adapter Connector

- Connection Jack for AC power adapter

R7. Vibrator Jack

- Connection jack for Wake-Up Vibrator

REMOTE THERMO UNIT (THR268)

S1. LCD

Displays the current temperature monitored by the remote unit

S2. LED INDICATOR

Flashes when the remote unit transmits a reading

S3. °C/°F SLIDE SWITCH

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

S4. RESET BUTTON

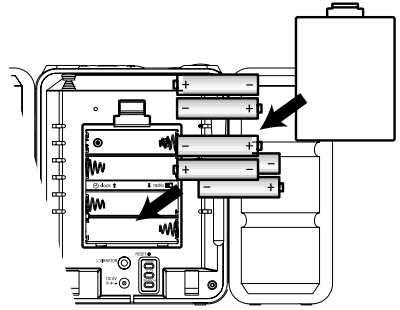Returns all settings to default values

S5. BATTERY COMPARTMENT

Accommodates two UM-3 or AA size batteries

S6. BATTERY DOOR

S7. WALL-MOUNT HOLDER

Supports the remote unit in wall-mounting

S8. REMOVABLE TABLE STAND

For standing the remote unit on a flat surface

POWER REQUIREMENTS

The main unit operates on six (6) pieces of AA-sized or UM-3 1.5V batteries (alkaline batteries reecommended). The clock, radio and remote thermometer have separate low battery indicators. Change the batteries accordingly when the respective indicator lights up.

Low Battery Indicator for Clock

For Radio

For Remote Sensor

An 8V AC Power Adapter is included. To connect, plug it into the power adapter connector and the other end to a wall socket. If you wish to turn on the radio for a long period, please use the adapter for power supply.

For the Remote Thermo Sensor THR268, it operates on two (2) pieces of AA-sized or UM-3 1.5V batteries. When its power level is low, the low battery indicator will be shown. In that case, change the batteries accordingly.

If not properly disposed of batteries can be harmful. Protect the environment by taking exhausted batteries to authorized disposal stations.

Note: Two (2) pieces of batteries should be installed in the upper battery compartment while the other four (4) pieces in the lower one. *Please note that when adapter is connected, there is no need to insert batteries into the lower battery compartment but two (2) pieces of batteries are still required to be installed in the upper compartment for clock operations.*

MAIN UNIT: BATTERY INSTALLATION

To install batteries into the main unit:

1. Press the door tab and click open the battery door at the back of the main unit.

2. Install six (6) pieces of AA-sized or UM-3 1.5V batteries by following the polarities shown inside the battery compartment. For proper functioning it is advised to install batteries first into the lower compartment and then into the upper one (Please note that if batteries are already installed into the unit, first pull out and remove the insulation tape in the remote sensor [marked 1]. After that pull out and remove the insulation tapes in the lower compartment [marked 2] and then the one in the upper one [marked 3] as well).

3. Replace the battery door and press **[RESET]**.

NOTE ON DETACHABLE SPEAKER

Slide up   Pull out

Push In   Slide Down

3
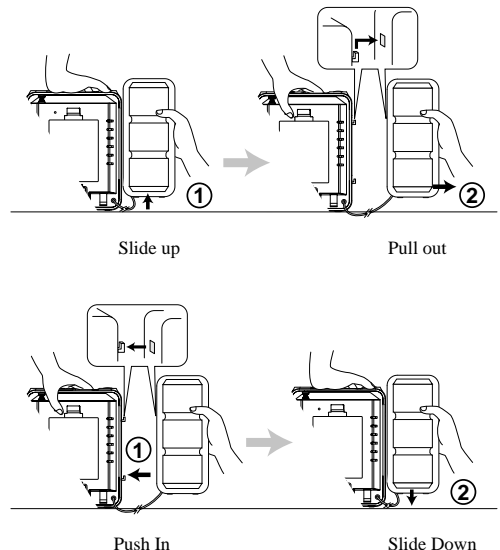
FEATURES

Section I — Radio-Controlled Digital Calendar Clock

ABOUT RADIO RECEPTION

After battery installation, the main unit will automatically synchronize its time and date with the radio signal from the U.S. Atomic Clock when it is within reception range of the signal.

When the main unit is receiving radio signal, the reception icon will start to blink. The reception icon will show either strong or weak reception depending on the strength of the radio signal. A complete reception generally takes about two to ten minutes.

When the reception is complete the reception icon will stop blinking.

The reception icon will show as " ı " for no reception or " 🗟 " for successful reception.

For best reception, place the unit away from other equipment that emit radio frequency or microwave signals such as TVs, radios, PCs or microwave ovens. Other causes for signal interference include electrical power transmission tower and/or steel reinforced concrete construction.

HOW TO ENABLE OR DISABLE AUTO-RECEPTION

To disable the automatic reception of radio signal, press and hold **[VOLUME ▼]** for 2 seconds. The reception icon will disappear and the unit will stop receiving the radio signal.

To activate the signal reception again, press and hold **[VOLUME ▲]** for 2 seconds. The reception icon will appear again and start blinking to indicate auto reception of radio signal.

DISPLAY MODES SELECTION

Press **[CLOCK]** in the normal display mode to scroll through the 2 calendar clock display modes:
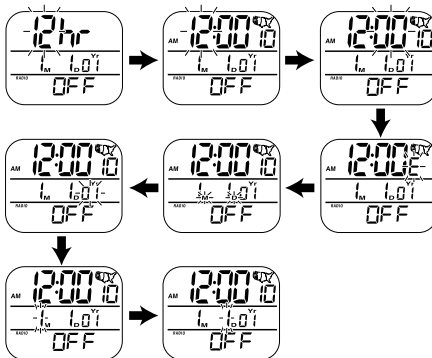

1. <u>Hour – Minute – Second</u>
   Month – Date – Year

2. <u>Hour – Minute – Weekday</u>
   Month – Date – Year

SETTING THE CLOCK AND CALENDAR MANUALLY

When the automatic radio reception is disabled, the main unit can be set manually. Set the Clock and Calendar by following the procedures below:

1. Press and hold **[CLOCK]** for 2 seconds. The "12-hr" or "24-hr" display will start flashing.

2. Select the display format by using **[VOLUME ▲]** or **[VOLUME ▼]**. Press **[CLOCK]** to confirm the entry.

3. The Hour digits will start flashing. Enter the hour by using **[VOLUME ▲]** or **[VOLUME ▼]**. Press **[CLOCK]** to confirm the entry.

4. Follow the same procedures to set the minutes, display languages for day-of-week, "mm:dd" or "dd:mm" calendar display format, year, month and day.

5. Press **[CLOCK]** to save the changes and exit the setting mode. If changes are made after the minute adjustment, the value of seconds will be reset and start from zero.

6. For the day-of-week you can select among 5 languages —English (E), French (F), German (D), Italian (I) and Spanish (S).

Language Langues Sprache Lingue Idiomas Lingua	Day-of-the-week Giorno della settimana		Affichage du jour Día de la semana		Wochentaganzeige Día de Semana		
	Monday Lundi Montag Lunedí Lunes Segunda	Tuesday Mardi Dienstag Martedí Martes Terça	Wednesday Mercredi Mittwoch Mercoledí Miércoles Quarta	Thursday Jeudi Donnerstag Glovedí Jueves Quinta	Friday Vendredi Freitag Venerdí Viernes Sexta	Saturday Samedi Samstag Sabato Sábado Sábado	Sunday Dimanche Sonntag Domenica Domingo Domingo
English Anglais Englisch Inglese Inglés Inglês	E	Mo Tu	WE	TH	Fr	SA	Su
French Français Französisch Francese Francés Francês	F	Lu MA	ME	DE	VE	SA	DI
German Allemand Deutsch Tedesco Alemán Alemão	D	Mo DI	MI	Do	Fr	SA	So
Italian Italian Italienisch Italiano Italiano Italíano	I	Lu MA	ME	GI	VE	SA	Do
Spanish Espagnol Spanisch Spagnolo Español Espanhol	S	Lu MA	MI	Ju	VI	SA	Do

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US TIME ZONE SELECTION

Press [ZONE] to toggle among the 4 US time-zones: Pacific, Mountain, Central or Eastern.
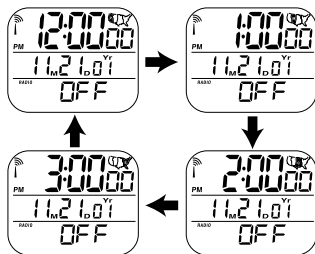


DISPLAYING AND SETTING THE ALARM

This unit is equipped with 2 daily alarms. To view the preset alarm time(s), press **[ALARM]** to toggle between ALARM 1 and ALARM 2 display modes.

To set the corresponding alarm time(s), follow the instructions below:

1. Press and hold **[ALARM]** for 2 seconds in ALARM 1 or ALARM 2 display mode. The display will enter the corresponding alarm setting mode and the hours will blink.

2. Enter the hour by using **[VOLUME ▲]** or **[VOLUME ▼]**. Press **[ALARM]** to confirm the entry.

3. The Minutes will then blink.

4. Enter the minutes by using **[VOLUME ▲]** or **[VOLUME ▼]**. Press **[ALARM]** to confirm the entry.

5. The beep alarm or radio alarm icon will blink.

6. Select the alarm-sounding mode by using **[VOLUME ▲]** or **[VOLUME ▼]**.

    In Beep alarm mode, a 2-minute crescendo alarm will be turned on when the alarm time is up. In Radio alarm mode, when alarm time is up, the radio will be turned on and remained on for 2 hours until it is manually deactivated. In Vibrating Alarm mode, the Vibrating alarm will be turned on for 2 minutes when the alarm time is up. Press **[ALARM]** to confirm the entry.

    Note: When the Vibrating alarm is connected to the unit, the Vibrating alarm mode will be automatically selected and the Vibration icon will light up.
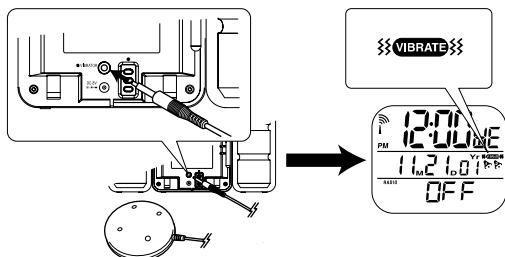

7. If Radio alarm mode is being chosen, the radio will be auto-

matically turned on and the Radio Station Number will flash. Select the radio station by using **[STATION]**. Please note that in this Radio Alarm mode, manual tuning cannot be used to set the station. Press **[ALARM]** to confirm the entry.
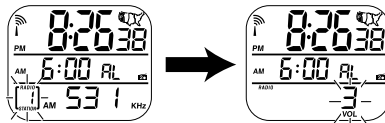
8. The Volume will then flash. Again, select the radio volume by using **[VOLUME ▲]** or **[VOLUME ▼]**. Press **[ALARM]** to confirm the entry and exit the setting mode. Press **[POWER ⏻]** to turn off the radio.

9. The respective Alarm settings will be updated once any value is changed in the above setting modes.

To enable/disable the alarm, press **[ALARM ON/OFF ▸]** when the main unit is in such Alarm display mode
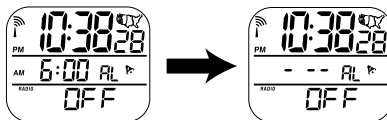
(ON)   (OFF)

When **[SNOOZE]** is pressed to stop the alarm sound (only when Beep Alarm or Vibration Alarm mode is selected), the unit will re-alarm again after 8 minutes. To disable the snooze function, press **[ALARM]** or **[ALARM ON/OFF ▸].**

Please note that when Radio or Soothing Sounds is on while Beep Alarm goes off at the same time, the Radio/Soothing Sounds will be temporarily stopped until the Beep Alarm has been turned off.

Section II — Digitally-tuned AM/FM Radio

HOW TO USE THE RADIO

Before you start — All radio functions can only be operated when Radio is powered on.

To turn on the radio/ soothing sounds, press **[POWER ⏻]**. Press **[RADIO/SOUND]** to select Radio or Soothing Sounds function. If Radio is selected, the radio will be turned on at the last preset radio station and volume.

To change the radio frequency, press **[AM/FM]** to select the radio band. Then use **[TUNING ▲]** or **[TUNING ▼]** to locate the desired radio frequency. Press once and the value will advance by 1 step. Press and hold to enter the Radio Channel auto-search function.

To change the volume, use **[VOLUME ▲]** or **[VOLUME ▼]** to increase or decrease the volume.

To toggle among the programmed stations, press **[STATION]**.

If no signals are received, blank "—-" will be displayed. Press and hold **[SEARCH]** for 2 seconds to activate search for the remote thermo signal from the sensor.

If that fails, check if the remote thermo sensor is still in place. Try repositioning the units as they may be having temperature transmission block as a result of interference.

Note: Failure of reception of remote signals may be due to the following reasons:

1. Battery power of the units is too low.

   Suggested Solution: Replace with fresh batteries if necessary.

2. Batteries may freeze when the temperature falls below the freezing point. Frozen batteries will have a lower voltage and therefore result in a shorter transmission range.

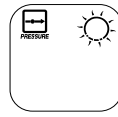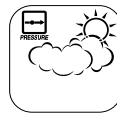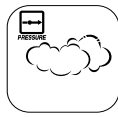   Suggested Solution: Shorten the transmission range by repositioning the units.

3. Transmission path is blocked with obstacles and interference from the surroundings.

   Suggested Solution: Shorten the distance (e.g., move the main unit closer to the window) or relocate the units when necessary.

MAXIMUM AND MINIMUM TEMPERATURE

The maximum and minimum indoor-remote temperatures recorded will be automatically stored in memory. Press **[MEM]** to toggle among the current, maximum and minimum indoor and remote temperature records. The respective "MAX" or "MIN" indicator will be shown.

To clear the memory, press and hold **[MEM]** for 2 seconds when the maximum or minimum record is being displayed. The memory will be erased and replaced with current temperature until a new maximum or minimum reading has been recorded.

If the temperature readings recorded are lower or higher the measuring range, "LLL" or "HHH" will be displayed respectively.

PRESSURE TREND

This unit gives a barometric pressure trend for the last hour.

Arrow Indicator			
Pressure Trend	Rising	Steady	Falling

WEATHER FORECAST

BARM123A detects barometric pressure changes and displays weather symbols including sunny, partly cloudy, cloudy, rainy and snow that indicate weather forecasts for the next 12 to 24 hours. The radius of the forecast is approximately 30 – 50 km or 18-30 miles.

sunny

partly cloudy

cloudy

rainy

snow

Section IV — Soothing Sounds

This unit is also featured with a Soothing Sounds function which can give out relaxing sounds continuously to mask the noise in the surroundings. There are 6 nature-simulating sounds which you can choose from: (1) Bird sounds, (2) Wind sounds, (3) River sounds, (4) Rain Drop sounds (5) Waterfall sounds and (6) Ocean Wave sounds.

To turn on the Soothing Sounds, press **[POWER⏻]**. Press **[RADIO/SOUND]** to select Soothing Sounds function. Press **[SELECT]** to toggle among the 6 different sounds. The respective LED will also light up to indicate the selected sound.

To adjust the volume, use **[VOLUME ▲]** or **[VOLUME ▼]** to increase or decrease the volume.

To turn off the Soothing Sounds, press **[POWER⏻]** to do so or **[RADIO/SOUND]** to switch to Radio function.

Section VI — Others

BACKLIGHT

To turn on the EL backlight of the LCD Display, press **[SNOOZE/LIGHT]** to turn it on for 5 seconds.

HOW TO RESET THE UNIT

Press **[RESET]** only in the following circumstances:

1. To enhance synchronization of signals after battery replacement

2. To reset the settings when the unit is malfunctioning

When **[RESET]** is pressed, all settings will return to the default values and memory records will be erased.

PRECAUTIONS

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

1. Do not immerse the unit into water.

2. Do note 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 interal components.

5. Do not mix new and old batteries or batteries of different specifications.

To maintain good performances, do not use the units in places which are extremely hot, cold, dusty or humid. In particular, keep the units away from:

- High Humidity areas (e.g., bathroom)

- Extreme hot areas (e.g., near a heater)

- Areas exposed to direct sunlight

Note on Listening with the headphones

A headphone jack is provided so that you can listen to the radio or sound soother by plugging a headphone into the jack. Remember to listen at a moderate volume to avoid hearing damage.

SPECIFICATIONS

RADIO-CONTROLLED CALENDAR CLOCK

Display format	:	12- or 24-hour
Calendar	:	Month/Date/Year or Date/Month/Year Day of Week in 5 languages: English/ French/ German/ Italian and Spanish
Alarm	:	Dual daily alarm in the following modes:

(i) Crescendo Beep Alarm with 8-minute Snooze function; or

(ii) Radio Alarm; or

(iii) Vibrating Alarm with 8-minute Snooze function

DIGITAL RADIO

AM band Frequency	:	540 – 1710 kHz
FM band Frequency	:	88 – 108.0 MHz
Station	:	8 memories for AM/ 8 memories for FM

TEMPERATURE MEASUREMENT

Main Unit

Indoor Temperature Measuring Range	:	-5°C to +50°C (+23°F to +122°F)
Temperature Resolution	:	0.1°C (0.2°F)

Remote Unit

Remote Temperature Measuring Range	:	-20°C to + 60°C (-4°F to +140°F)
Temperature Resolution	:	0.1°C (0.2°F)
RF Transmission Frequency	:	433 MHz
Temperature Sensing Cycle	:	Approx. 40 seconds

POWER

Main Unit	:	6 pcs of AA-sized or "UM-3" 1.5 V batteries
		8 V AC Adapter
Remote Thermo Unit	:	2 pcs of AA-sized or "UM-3" 1.5 V batteries

WEIGHT

Main Unit	:	80.5 gm or 2.8 ounces (without battery)
Remote Thermo Unit	:	66 gm or 2.3 ounces (without battery)
Vibrating Alarm	:	122.5 gm or 4.3 ounces

DIMENSIONS

Main Unit	:	235 x 68 x 140mm or 9.25"x2.67"x5.5" (LxWxT)
Remote Thermo Unit	:	70 x 21 x 105mm or 2.7"x.82"x4.1" (LxWxT)
Vibrating Alarm	:	88 x 92 mm or 3.46"x3.62" (Dia x T)

NOTE ON COMPLIANCE

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 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.

Company Name: Oregon Scientific, Inc.

Address: 19861 SW 95th Place, Tualatin, Oregon 97062, USA

Telephone Number: (503)-639-8883

Website address: www.oregonscientific.com

Name and model number of the product:
Digital Clock Radio BARM123A

CUSTOMER ASSISTANCE

Should you require assistance regarding this product and its operation, please contact our customer care department at 1-800-853-8883 or via email at helpme@oscientific.com.

WARRANTY

This product is warranted to be free of manufacturing defects for a period of 3 months from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange. Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Warranty exchanges re-quire proof of date of purchase (purchase receipt showing date, place and product purchased).

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.

CAUTION

- The content of this manual is subject to change without further notices
- Due to printing limitation the displays shown in the manual may differ from the actual display
- The contents of this manual may not be reproduced without the permission of the manufacturer