



**O R E G O N  
S C I E N T I F I C**

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**Weather Forecast Multi-channel  
In-out Thermometer With  
Cable Free Sensor And  
RadioControlled Clock  
Model : BAR888  
User's Manual**

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**INTRODUCTION**

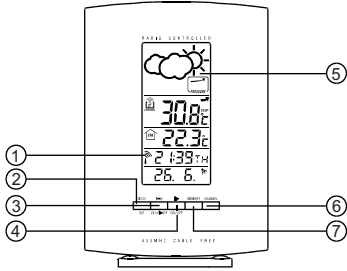
Thank you for selecting the BAR888 Weather Forecast, Multi-channel In / Out Thermometer with 433MHz cable free sensor and radio controlled calendar clock. The main unit BAR888 has a built in barometer, thermometer and clock station and is capable of keeping track of minimum and maximum temperatures in different locations via transmissions from the THR128 remote thermo sensor. The current time and date is automatically synchronized when brought within an approximate 1500km radius of the radio signal generated from Frankfurt Germany (DCF77). The time and date can also be set manually when out of range.

The basic package includes:

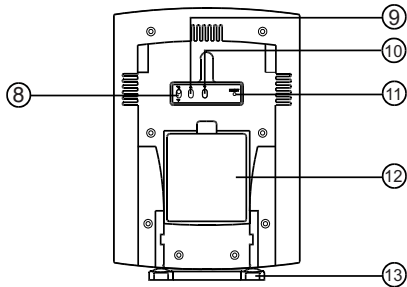
- Main Unit BAR888
- Remote Sensor THR128

Main Unit Features Include:

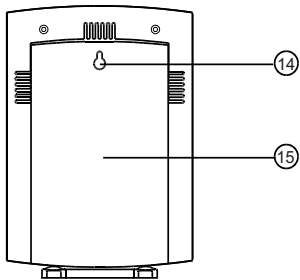
- Large readouts
- Support for up to three remote sensor units (optional)
- Maximum and minimum temperature record for different locations
- Wireless 433MHz frequency can be used in U.S. and most places in Continental Europe
- Three language display
- Crescendo alarm
- Interchangeable display modes

**MAIN FEATURES: MAIN UNIT****FRONT VIEW**

1. **Radio Reception Signal**  
Indicates the condition of radio reception
2. **MODE/SET Button**  
Toggles between display modes, confirms entry, and adjusts values
3. **ALARM / 24hr  $\blacktriangleright$  OFF Button**  
Sets the time for the alarm
4. **ALARM  $\blacktriangleright$  ON / OFF Button**  
Enable or disable the alarm
5. **FIVE-LINE Display**  
Facilitates easy reading of weather forecast, remote and indoor temperatures, and calendar clock
6. **CHANNEL Button**  
Selects among different channels
7. **MEMORY Button**  
Recalls the maximum or minimum temperature of individual channels

**BACK VIEW**

( WITHOUT BACK COVER )

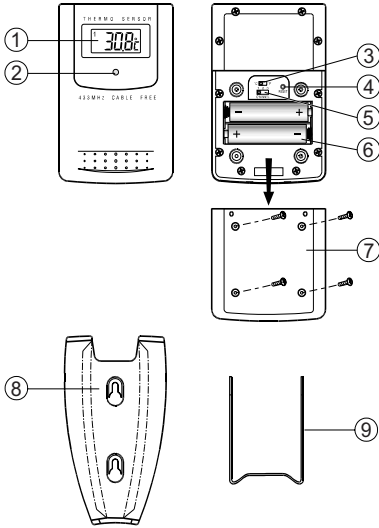


( WITH BACK COVER )

8.  **$^{\circ}$ C /  $^{\circ}$ F Slide Switch**  
Selects between degree Centigrade ( $^{\circ}$ C) and Fahrenheit ( $^{\circ}$ F)
9. **UP (+) Button**  
Increases the value of a setting
10. **DOWN (-) Button**  
Decreases the value of a setting
11. **RESET Button**  
Returns all settings to default values
12. **Battery Compartment**  
Takes 4 x 1.5V AA-size batteries
13. **Removable Table Stand**  
For standing the main unit on a flat surface
14. **Wall-Mount Recess Hole**  
For mounting the main unit on a wall
15. **Back Cover**  
Back plate of the main unit



## MAIN FEATURES: REMOTE UNIT



1. **LCD**  
Displays the current temperature monitored by the remote unit
2. **LED Indicator**  
Flashes when the remote unit transmits a reading
3. **°C / °F Slide Switch**  
Selects between Centigrade (°C) and Fahrenheit (°F)
4. **RESET Button**  
Returns all settings to default values
5. **Channel Selection Switch**  
Designates the remote unit Channel 1, 2, or 3
6. **Battery Compartment**  
Accommodates two AAA-size batteries
7. **Battery Door**
8. **Wall-Mount**  
Used to attached the remote unit to a wall
9. **Removable Table Stand**  
For positioning the remote unit on a flat surface

## BEFORE YOU BEGIN

Position the remote and main units within effective transmission range which in usual circumstances, is 20 to 30 meters.

For best operation:

1. Assign different channels to different remote units.
2. Insert batteries for remote units before doing so for the main unit.
3. Place the main unit as close as possible to the remote unit. Reset the main unit after installing batteries to ensure easier synchronization between the transmission and reception of signals.

**NOTE** The effective range is affected by the building materials and where the main and remote units are positioned. Try various set-ups for best result.

Though the remote units are weather proof, they should be placed away from direct sunlight, rain, or snow.

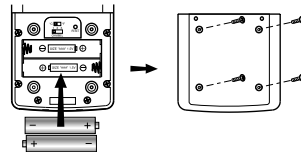
## REMOTE UNIT SETUP

For best results, use lithium ion batteries in the remote sensing unit if the outdoor temperature falls below -5 °C (41 °F), other battery types will not function at such low temperatures.

**NOTE** If there is a clear plastic tab in the battery compartment, please remove it before installing the batteries.

To install the batteries and change the channel:

1. Remove the screws on the battery compartment.
2. Select the channel number on the **CHANNEL** slide switch.
3. Select the temperature display unit on the °C/°F slide switch.



4. Insert the batteries strictly according to the polarities shown.
5. Replace the battery compartment door and secure its screws.
6. Using a blunt stylus such as a paper clip, press **RESET**.

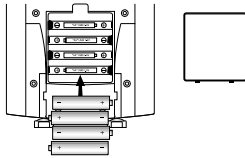
Replace the batteries when the low-battery indicator of the particular channel lights up on the main unit.

Note that once a channel is assigned to a remote unit, you can only change it by replacing the batteries or resetting the unit.

### MAIN UNIT SETUP

To install the batteries:

1. Slide open the battery compartment door.
2. Insert the batteries according to the polarities shown.



3. Replace the battery compartment door.

Change the batteries when the low-battery indicator for the indoor temperature lights up.

**NOTE** If there is a clear plastic tab in the battery compartment, please remove it before installing the batteries.

### LOW BATTERY WARNING

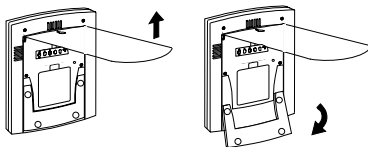
When it is time to replace batteries, the low-battery indicator will show up when the respective channel is selected. The battery level of the main unit will be shown on the indoor temperature display when it is running low.

### TABLE STAND OR WALL MOUNT

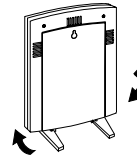
The main unit has a retractable table stand, which when flipped open, can support the unit on a flat surface. Or you can flip close the stand and mount the unit on a wall using the recessed screw hole.

#### MAIN UNIT

The main unit comes with a wall-mount holder and a removable stand. Use either to hold the unit in place.



1. Lift up the back cover
2. Flip up the stand

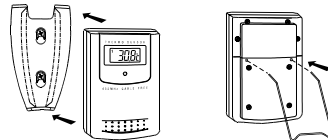


3. Close the back cover

### REMOTE UNIT

Wall-mount

Table Stand



### THE RESET BUTTON

This button is only used when the unit is operating in an unfavorable way or malfunctioning. Insert a pointed object such as an unfolded paper clip into the reset hole, then press and hold. All settings will return to their default values.

### GETTING STARTED

Once batteries are in place for the remote units, they will start transmitting temperature readings at 30-second intervals.

The main unit will also start searching for signals for about a minute once batteries are installed. Upon successful reception, the individual channel temperatures will be displayed on the 2nd line and the indoors temperature on the 3rd line. The main unit will automatically update its readings at about 30-second intervals.



If no signals are received, blanks " --- " will be displayed and the kinetic wave icon will show " ❄️ ". Press **CHANNEL** and **MEMORY** simultaneously to enforce another search for about 30 seconds. This is useful in synchronizing the transmission and reception of the remote and main units.

Repeat this step whenever you find discrepancies between the reading shown on the main unit and the respective remote unit.






## CHECK REMOTE AND INDOOR TEMPERATURES

The indoor temperature is shown on the 3rd line of the display.

To check the temperature at a remote sensors location, you need to select its channel. Press **CHANNEL** to go from one channel to another. The kinetic wave display on the channel number indicates the reception of that particular channel is in good order.

If no readings are received from one particular channel for more than two minutes, blanks "----" will be displayed until further readings are successfully searched. Check that the remote unit is sound and secure. You can wait for a little while or press **CHANNEL** and **MEMORY** simultaneously to enforce an immediate search. No reading will be shown if no remote unit is assigned to a selected channel.








The temperature trend indicator on the screen shows the trend of samplings collected at a particular remote site. Three trends, rising, steady, and falling will be shown.

Arrow indicator	 TEMP	 TEMP	 TEMP
Temperature Trend	Rising	Steady	Falling

If the temperature goes above or below the temperature measuring range of the main unit or the remote unit (stated in specification), the display will show "HHH" or "LLL".

## READ THE KINETIC WAVE DISPLAY

The kinetic wave display shows the signal receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	 
Temperature readings are securely registered.	   
No signals.	

## MAXIMUM AND MINIMUM TEMPERATURES

The maximum and minimum recorded indoor temperatures and those of each channel will be automatically stored in memory. To display them:

1. Select the channel to be checked.
2. Press **MEMORY** once to display the maximum temperature and again the minimum temperature. The respective indicators, MAX or MIN will be displayed.

To clear the memory, press and hold **MEMORY** for two seconds. The maximum and minimum temperatures will be erased. If you press **MEMORY** now, the maximum and minimum temperatures will have the same values as the current ones until new readings are recorded.

## DISCONNECTED SIGNALS

If without obvious reason the display for a particular channel goes blank, press **CHANNEL** and **MEMORY** to enforce an immediate search. If that fails, check:

1. The remote unit of that channel is still in place.
2. The batteries of both the remote unit and main unit. Replace as necessary.
3. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.

For best results, use lithium ion batteries in the remote sensing unit if the outdoor temperature falls below 41 °F (-5 °C), other battery types will not function at such low temperatures.

## TRANSMISSION COLLISION

Signals from other household devices, such as door bells, 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.





## SWITCHING BETWEEN °C AND °F

The unit of temperature display is selected on the °C/°F slide switch. Select °C for Centigrade and °F for Fahrenheit.

**NOTE** The remote temperature display shown on the main unit is dominated by the selection on the °C/°F slide switch of the main unit. Whatever the display units of the remote sensors are, they will be automatically converted to the chosen one of the main unit.

## WEATHER FORECAST FUNCTION

Your BAR888 detects barometric pressure changes and the LCD displays the illustrated weather symbols which indicates the weather forecast for 12 to 24 hours ahead, for an area with a radius of about 30-50 km.

Indicator displays on the unit				
Forecast	Sunny	Slightly Cloudy	Cloudy	Rainy

**Important:**

1. The accuracy of weather forecasting when using pressure trend alone is about 70 to 75 percent and, therefore, the manufacturers and suppliers cannot be held responsible for any inconveniences caused by an inaccurate weather forecast.
2. The weather forecast symbols may not reflect current weather condition. The symbols are forecasting the future.
3. A "SUNNY" forecast covering the night-time reflects fine clear weather.

**HOW TO READ THE PRESSURE TREND**

The BAR888 gives you the pressure trend for the last hour. It is indicated by the arrow displayed in the right hand side of the upper display. An upward pointing trend arrow indicates that it is likely that the weather is improving or may be getting worse if the trend arrow is falling. Here is what it can look like:

Arrow indicator			
Pressure Trend	Rising	Steady	Falling

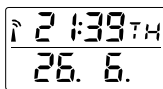
**CALENDAR CLOCK DISPLAY MODES**

The BAR888 supports different display modes.

**MODE 1. Hour-Minute-Second**  
Month-Day



**MODE 2. Hour-Minute-Day of the Week (of local time)**  
Day-Month (of local time)



Press **MODE**, to change from one display mode to the next

**NOTE** The bottom line of the display will be replaced by the alarm time if the **24hr** **OFF** button is pressed.

**ABOUT RADIO RECEPTION**

The BAR888 is designed to automatically synchronize its current time and date when brought within an approximate 1500km radius of the radio signal generated from Frankfurt Germany (DCF77).

When the BAR888 is within range, its radio-control mechanism will override all manual settings.

When the unit receives radio signal, the radio reception signal will start to blink. A complete reception generally takes about 2 to 10 minutes, depending on the strength of the radio signal.

When reception is complete, the radio reception signal will stop blinking. The signal strength indicator from the last full hour will be shown.

	- Strong
	- Weak
	- No signal
	- Receiving

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

If you wish to turn off the auto-reception feature, press and hold - for three seconds. The radio reception signal will disappear. The unit will not respond to radio signals.

To activate the feature again, press and hold the + button for three seconds. The radio reception signal will start blinking to initiate reception automatically.

**SET THE CLOCK MANUALLY**

To manually set the clock:

1. Press and hold **MODE / SET** until the hour flashes.
2. Press **+ or -** to set the hour, then press **MODE / SET** to confirm.
3. Repeat step 3 to set the minutes, year, month, day, and display language.

**NOTE** The time and date is displayed in 12-hour clock and month-day format. For the language display, you can choose among English (E), French (F), and Spanish (S).

**Tips:**

- If there is an item you do not wish to change, simply press **MODE / SET** to bypass that setting.
- Press and hold **+ / -** to rapidly change a value.

**SET AND ARM THE ALARM**

To set the alarm,

1. Press **24hr** **OFF** once to display the alarm time. The alarm time that was last set will be displayed. If you have never set the alarm before, the time will be displayed as 12:00am.
2. Press **24hr** **OFF** for three seconds. The hour digits will blink.
3. Enter the hour using **+ / -**.
4. Press **24hr** **OFF**. The minute digits will blink.
5. Enter the minutes using **+ / -**.
6. Press **24hr** **OFF** to exit.

You can arm or disarm an alarm by pressing the **ON / OFF** button; an icon will show when the alarm is activated.

**STOP THE ALARM**

To stop an alarm, you can use either **24hr** **OFF** or **ON / OFF**.

- Pressing **24hr** **OFF** will stop the alarm, but it will remain armed and will go off at the set time the next day.
- Pressing **ON / OFF** will stop the alarm and deactivate it altogether.

**SPECIFICATIONS****TEMPERATURE MEASUREMENT****Main unit**Indoor Temperature measurement

Displayed IN temperature range	-9.9°C to +70.0°C (14.2°F to 158.0°F)
Proposed 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 Temperature measurement

Displayed OUT temperature range	-50.0°C to +70.0°C (-58.0°F to 158.0°F)
Proposed 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**

Displayed range	-50.0°C to +70.0°C (-58.0°F to 158.0°F)
Proposed operating range with alkaline batteries	-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
No. of Remote unit	Maximum of 3
RF Transmission Range	Maximum 30 meters (100 feet)
Temperature sensing cycle	Approximately 30 seconds

**BAROMETRIC PRESSURE MEASUREMENT**

Pressure measuring range	795 to 1050 mb/ hPa (23.48 to 31.01 inHg)
Pressure sampling cycle	15 minutes

**RADIO CONTROLLED CLOCK**

Maintime set and synchronized by Radio Signal from Frankfurt Germany (DCF77).

12 h display with hh:mm:ss

Day of week selectable in 3 language (E,F,S)

2-minute crescendo alarm

**POWER**

Main unit	4 x UM-3 "AA" 1.5V alkaline battery
Remote sensing unit	2 x UM-4 "AAA" 1.5V alkaline battery



**WEIGHT**

Main unit	306gm (10.79 ounces)
Remote sensing unit	100 gm (3.53 ounces)

**DIMENSION**

Main unit	182 x 133 x 28 mm (7.17 x 5.24 x 1.10 inches)
Remote sensing unit	92 x 60 x 21 mm (3.62 x 2.36 x 0.83 inches)

**SAFETY AND CARE**

This product is designed to give you years of service if handled properly. Observe the following guidelines:

- Clean the unit with a damp cloth and mild detergent. Avoid dropping the unit or placing it in a high-traffic location.
- Never immerse the unit in water. This can cause electrical shock and damage the unit.
- Do not subject the main unit to extreme force, shock, or fluctuations in humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types. Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.
- Do not make any changes or modifications to this product. Unauthorized changes may void your right to use the product.
- The technical specifications for this product and the contents of the user guide are subject to change without notice.
- Images not drawn to scale.

**ABOUT OREGON SCIENTIFIC**

Visit our website ([www.oregonscientific.com](http://www.oregonscientific.com)) to learn more about other Oregon Scientific products such as digital cameras, hand-held organizers, health and fitness gear, and projection clocks. The website also includes contact information for our customer service department, in case you need to reach us.

**EC-DECLARATION OF CONFORMITY**

This product contains the approved transmitter module that complies with the essential requirements of Article 3 of the R&TTE 1999 / 5 / EC Directive, if used as intended and the following standards have been applied:

**Safety of information technology equipment**

(Article 3.1.a of the R&TTE Directive)

Applied Standard **EN 60950: 2000**

**Electromagnetic compatibility**

(Article 3.1.b of the R&TTE Directive)

Applied Standards **EN 301 489-3: 2002**

**Efficient use of radio frequency spectrum**

(Article 3.2 of the R&TTE Directive)

Applied Standards **EN 300 220-3: 2000**

Additional information:

The product herewith complies with the requirements of the Low Voltage Directive 73 / 23 / EC, the EMC Directive 89 / 336 / EC and carries the CE marking accordingly.



Carmelo Cubito  
Agrate Brianza (MI) / Italy January 2004  
EC Mandatory of Manufacturer

**COUNTRIES RTTE APPROVAL COMPLIED**

All EC countries, Switzerland (CH)  
and Norway (N)



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