

INTRODUCTION

Thank you for selecting the Oregon Scientific Multi-Component Wireless Weather Station (BHT663A). This unique product bundles weather forecasting, temperature and humidity monitoring, precise time keeping and alarm features into a single tool you can use from the convenience of your home.

In this box, you will find:

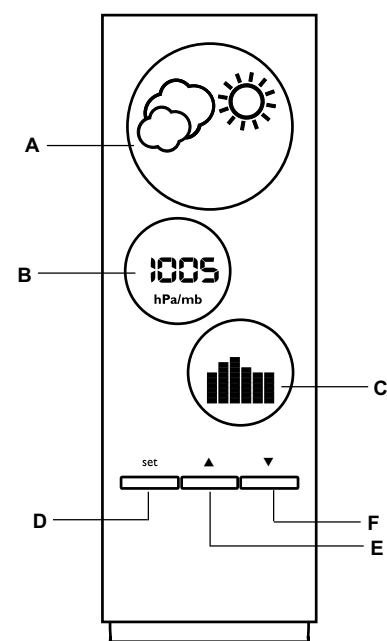
- Weather Station (BHB613)
- Alarm Clock (BHM612A)
- Thermo-Hygrometer (BHGR618)
- Wireless Remote Sensor (THGR238N)

The manual is divided into 4 distinct sections - one for each component.

Keep this manual handy as you use your new product. It contains practical step-by-step instructions as well as technical specifications and warnings you should know.

WEATHER STATION (BHB613)

FEATURES



A. WEATHER FORECAST WINDOW

Weather forecast indication shows sunny, slightly cloudy, cloudy and rainy.

B. PRESSURE READING WINDOW

Displays the current pressure reading.

C. PRESSURE TREND CHART WINDOW

D. SET BUTTON

To set the altitude

E. UP BUTTON

Increases the value of setting by 10

F. DOWN BUTTON

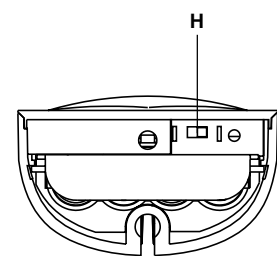
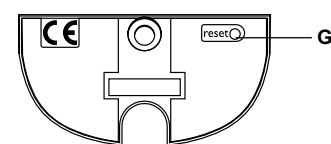
Decreases the value of setting by 10

G. RESET BUTTON

Returns all settings to default value and erases all memories.

H. hPa/mb-inHg Slide switch

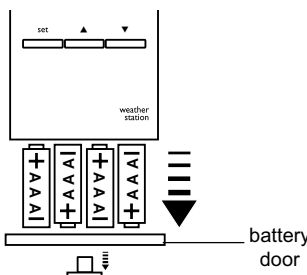
Selects between hPa/mb or inHg display unit.



BATTERIES

The unit uses four UM-4 "AAA" size batteries. If the " " indicator appears, remove the exhausted batteries and follow these steps to replace the batteries:

1. Unscrew the battery door at the bottom of the unit.
2. Remove the battery cover and insert the batteries as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
3. Replace the battery door and fasten the screw.



Note: After replacing the batteries, the whole display will be turned on for about 3 seconds and then show the following:

- a. Weather forecast shows slightly cloudy weather (a sun with the cloud indicator)
- b. Pressure trend shows steady.
- c. Barometric pressure shows the current reading. The unit takes about 24 hours to store the barometric pressure date. Until that time has elapsed, the pressure trend and weather forecast symbols may not reflect actual weather forecast for your area.

WEATHER FORECAST SYMBOLS

Your weather station detects barometric pressure changes and the LCD displays the illustrated weather symbols which indicating the weather forecast for 12 or 24 hours ahead, for an area with a radius of about 18-30 miles.

Indicator displays on the unit	Sunny	Slightly Cloudy	Cloudy	Rainy
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, we cannot be held responsible for any inconveniences caused by an inaccurate weather forecast.
2. The weather forecasts symbols reflect forecast 12-24 hours in the future and not the current weather condition.
3. A ' Sunny ' forecast reflects fine clear weather.

PRESSURE TREND

Stored memory of the barometric pressure changes are displayed on the chart, in 5 steps indicating the pressure 1,3,6,12 and 24 hours ago. This chart is plotted by comparing the past barometric pressure to the present pressure.

This gives you the pressure trend over the last 24 hours. The weather will be getting better (worse) if this chart shows the bar marks moving up (down) towards the present time.

Important:

It is only possible to measure the barometric pressure trend properly if your barometer remains at the same altitude.

When moving around at different altitude within a short time period, the air pressure changes. The barometric pressure reading is precise only if the barometer has remained at a constant altitude for 24 hours.

However, please note that the accuracy of a weather forecast based on barometric pressure reading is considered to be about 70-75%.

SET ALTITUDE

1. Press and hold the **SET** button for 2 seconds to set the altitude. The 'ALT' indicator will turn on with the altitude setting flashing (display in meter). The accuracy of a general pressure-based weather forecast is about 70% to 75%. Increase/decrease the altitude in steps of 10 meter by pressing **▲** or **▼** button.
2. Press the **SET** button again to set the altitude. At this time the previous pressure display will reappear. If the altitude has been changed, the 'ALT' indicator flashing (about 15 minutes) until a new sampling takes place and the pressure reading is then compensated with the new altitude.
3. Press the **SET** button 6 times to confirm the setting you just entered or wait for one minute for automatic exit.

Note: For monitoring the local barometric pressure reading, the user needs to select the 0 meter (preset value) for the altitude setting. For monitoring the Sea Level barometric pressure reading at certain altitude, the user needs to select the local altitude (-100 to 2500 meters i.e. -328 to 8223 feet) for the altitude setting. The BHB-613 requires entry of elevation in meters not feet. Therefore, to convert feet to meters, multiply feet by 0.3048.

To determine your location elevation, please either contact your local library, TV/ radio weather forecaster, or via Internet at www.worldatlas.com/aatals/infpage/elevation.htm.

PRESSURE TREND DISPLAY

- To get the line chart display, press the **RESET** button at the bottom of the unit while pressing and holding the **SET** key in the bar chart display.

- To get the bar chart display, press the **RESET** button once.

Note: Either action will reset the unit and the previous readings/setting will be lost.

SELECT MEASUREMENT UNIT

The switch in the battery compartment of the weather station selects between hPa/mb and inHg. To select hPa/mb, set the switch to hPa/mb. To select inHg, set the switch to inHg.

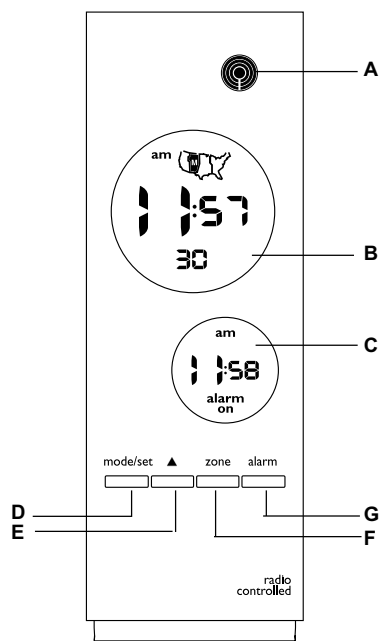
SPECIFICATIONS

Pressure measuring range	794 to 1050 hPa/mb (24.45 to 31.00 inHg)
Altitude compensation for barometric pressure reading	-100 to 2500 meters (-328 to 8223 feet)

Pressure display resolution	1 hPa/mb (0.03inHg)
Pressure sampling cycle	15 minutes
Power source	Four pcs. UM-4 or "AAA" size batteries
Battery life	9 month
Dimension	6.64" x 2.32" x 1.28" (H x WxD)
Weight	4.80 ounces (without battery)

ALARM CLOCK (BHM612A)

FEATURES



A RF SIGNAL INDICATOR
- Indicates the signal-receiving status of the unit

B MAIN WINDOW
- Displays the current time with seconds or day of the week

C SECONDARY WINDOW
- Displays the alarm time and its status or date

D MODE/SET BUTTON
- Changes between seconds and weekday display (Main window) or between calendar and alarm clock display (secondary window)
- Holds to activate the clock setting mode

E UP BUTTON

- Increases the value of a setting by one unit

F ZONE BUTTON

- Press to sequence through the 4 U.S. time-zones: Pacific, Mountain, Central or Eastern.

G ALARM BUTTON

- Changes the display and operating status of the alarm clock

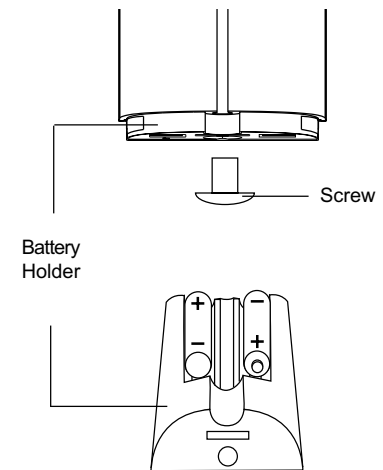
H RESET BUTTON

- Returns all settings to the factory set default values

BATTERIES

1. Open the battery compartment by removing the screw at the bottom of the unit.
2. Pull out the battery holder and insert two AAA-sized (UM-4) batteries in accordance with the polarities shown.
3. Slide back the battery holder into the compartment and fasten the screw.
4. Press **RESET** with a blunt stylus.
5. When the low battery indicator [] appears on the display, follow the above procedures to replace the unit with new batteries.

Note: The unit will automatically search for the radio signal when batteries are first installed. When the BHM-612A is new and just out of the box, allow up to 72 hours for the unit to receive the US Atomic Clock signal. To facilitate reception, place the BHM-612A on a window sill away from other signal emitting equipment such as TVs, radios, PCs and microwaves. Strongest signal reception is between midnight and 4AM.



CHANGE DISPLAY

In normal display, the current time, with seconds, will be displayed in the main window and the date will be displayed in the secondary window. To display the weekday in the main window, press **MODE / SET** once. Press the button again to display seconds.

To display the alarm time in the secondary window, press **ALARM** once. Press **MODE / SET** to display the date.

RF SIGNAL RECEPTION

The BHM-612A is designed to automatically synchronize its current time and date when within range of the U.S. Atomic Clock.

When the unit is within range, its radio-control mechanism will override all manual settings. The benefit of a RF controlled clock is sustained accuracy without the need of manual adjustment.

Signal Search Mode.	• ☀
Signal Reception Mode	○ ○ ○ ○
No Signal Received	•

Complete signal reception generally takes about 2 to 10 minutes, depending on the strength of the radio signal. When the reception is completed, the signal display will be stable. After that, the periodical scanning will only take a few seconds.

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

ACTIVATE / DEACTIVATE RF SIGNAL

To disable the automatic signal reception feature and cause the BHM-612A to operate as a quartz clock, hold down **ZONE** for three seconds.

To enable the feature again, hold down the **UP** button for three seconds. The RF signal display will start scanning to initiate reception automatically.

SET CLOCK

NOTE: You only need to perform this task if you have disabled RF signal reception.

When the current time is displayed:

- Press **MODE / SET** for two seconds. Hours digits will flash.
- Set the hour using **UP**.
- Press **MODE / SET**. Minutes digits will flash.
- Set the minutes using **UP**.
- Press **MODE / SET**.
- Follow the same pattern to enter year, month, day and the display language for the weekday. You can choose among **E (English)**, **F (French)** and **S (Spanish)**.
- Press **MODE / SET** to save the changes and exit.

If changes are made during the process, the seconds of the clock will reset and start from zero. The unit will also save all changes and return to normal display automatically after the unit has been left idle for a minute.

SET ALARM

To set the alarm time:

1. Press **ALARM** to display the alarm time.
2. Press and hold **ALARM** for two seconds. Hours digits will flash.
3. Set the hours using **UP**.
4. Press **ALARM**. Minutes digits will flash.
5. Set the minutes using **UP**.
6. Press **ALARM** to save and exit. The alarm clock will be activated automatically during the setting procedure.

To activate or deactivate the alarm during normal display.

- Press **ALARM** to display the alarm time.
- Press **ALARM** to change the status of the alarm. The respective indicator will appear.

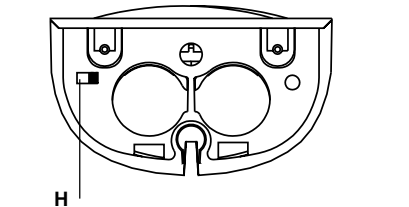
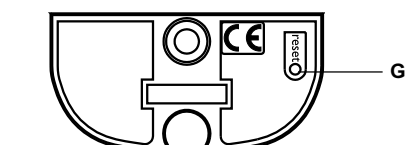
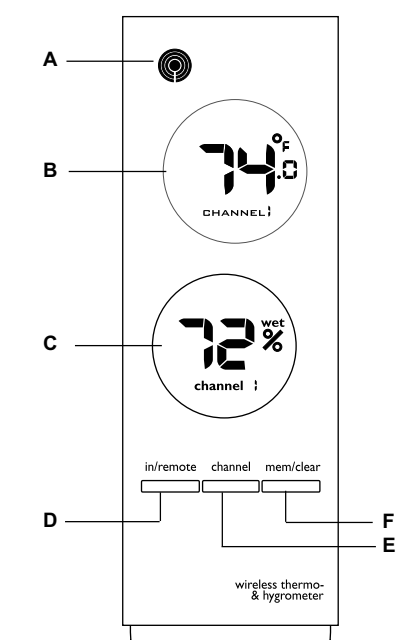
When the alarm goes off, the alarm sound will gradually increase in volume and speed. The alarm will continue to sound for approximately two minutes unless interrupted when any button is pressed. If the alarm is not interrupted, after 2 minutes the alarm will silence itself and reactivate after approximately eight minutes.

SPECIFICATIONS

Operating Temperature	32° F to 104° F
Radio Control	Auto synchronizes current time and date by Radio signal generated from the U.S. Atomic Clock
Calendar	Weekday in English/French/Spanish; Current month/day format
Clock Time	12-hour format
Alarm Time Duration	2 minutes
SNOOZE Time Duration	8-9mins
Accuracy	+/-0.5 second/day (when operating in quartz clock mode)
Battery Type	Two (2) UM-4 or "AAA" size
Unit Dimension	6.64" x 2.32" x 1.28" (H x W x D)
Unit Weight	5.53 oz

THERMO-HYGROMETER (BHGR618)

FEATURES



A RF SIGNAL INDICATOR
- Indicates the signal-receiving status of the unit

B UPPER DISPLAY
- Displays temperature data

C LOWER DISPLAY
- Displays humidity data

D IN / REMOTE BUTTON
• Selects between main and remote unit display
• Activates search mode

E CHANNEL BUTTON
• Selects a different channel
• Scan for remote sensors

F MEM / CLEAR BUTTON
• Recalls maximum / minimum temperature / humidity
• Clears maximum / minimum temperature / humidity memory

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