Oregon
SCIENTIFIC

INSTRUCTION MANUAL

Model BA888
ELECTRONIC BAROMETER

Thank you for purchasing the Oregon Scientific barometer. This barometer has been designed specifically with performance and ease of use in mind. As with all Oregon Scientific products, this barometer is made to the highest quality standards using precision electronic components and should give you many years of trouble-free use.

Please read the User's Guide carefully before use to ensure you get the best out of your new barometer.

Please note that the accuracy of the weather forecasting is about 70 ~ 75 percent, when monitoring changes in barometric pressure alone, therefore, we cannot be held responsible for any issues that may arise due to wrong forecasting with this unit.
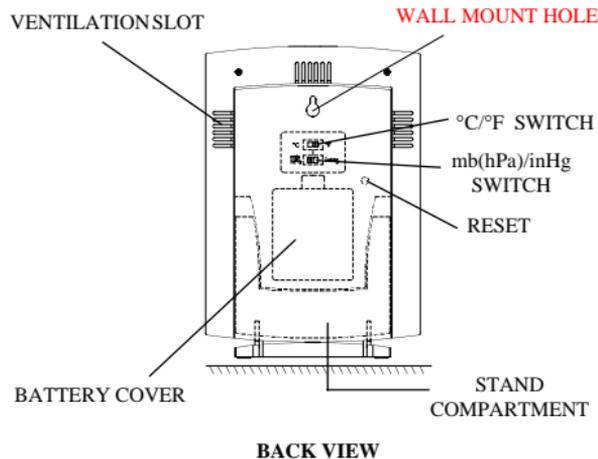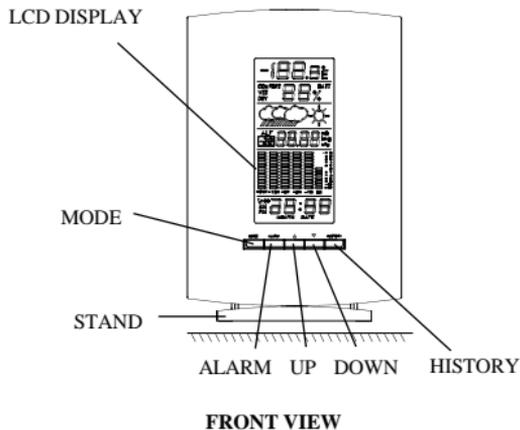
FEATURES

- Electronic Barometer with barometric pressure and trend.
- Weather forecast indication shows sunny, slightly cloudy, cloudy and rainy.
- Displays indoor temperature and indoor relative humidity at the same time.
- Comfort zone indicatior: shows ideal humidity and temperature for personal comfort.
- User selectable °C or °F units of measure.
- User selectable mb / hPa or inHg units of measure.
- Clock display shows hour, minute / calendar display, month and date.
- Daily alarm.
- Built-in low battery signal indication.
- Wall mounting and table standing features.

DESCRIPTION OF PARTS

LCD DISPLAY

MODE

STAND

ALARM UP DOWN HISTORY

FRONT VIEW

VENTILATION SLOT

WALL MOUNT HOLE

°C/°F SWITCH

mb(hPa)/inHg SWITCH

RESET

BATTERY COVER

STAND COMPARTMENT

BACK VIEW

INSTALLING AND REPLACING BATTERIES

The unit uses four UM-4 ' **AAA**' size batteries. If the '*BATT*' indicator appears, removes the exhausted batteries and follow these steps to install or replace the batteries:

1. Swing the back cover away from the unit.
2. Lift and pull up the top center edge of the battery compartment cover, then remove the cover.
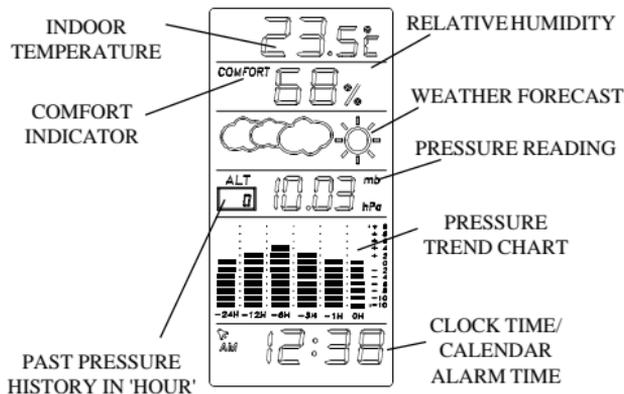
3. Insert the batteries as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
4. Replace the battery compartment cover.

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

a, Indoor temperature shows the current reading.
b, Indoor relative humidity shows the current reading.
c, Weather forecast shows slightly cloudy (a sun shows with the cloud indicator)
d, Pressure trend shows steady.
e, Barometric pressure shows the current reading.
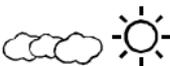f, Clock time shows AM12:00.

The unit takes about 24 hours to store the barometric pressure data. Until that time has elapsed, the pressure trend and weather forecast symbols may not reflect actual weather forecast for your area.

DISPLAY AND FUNCTIONS

INDOOR TEMPERATURE
RELATIVE HUMIDITY
COMFORT INDICATOR
WEATHER FORECAST
PRESSURE READING
PRESSURE TREND CHART
CLOCK TIME/ CALENDAR ALARM TIME
PAST PRESSURE HISTORY IN 'HOUR'

HOW TO READ THE ILLUSTRATED WEATHER FORECAST SYMBOLS

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

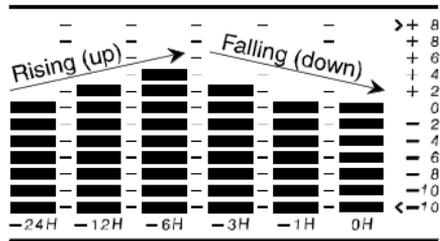| Indicator displays on the unit	☀	☁☀	☁	☁🌧
Forecast	Sunny	Slightly Cloudy	Cloudy	Rainy

Important:

1. The accuracy of weather forecasting when using pressure trend alone is about 70 to 75 percent and, therefore, we cannot be held responsible for any inconveniences caused by an inaccurate weather forecast.
2. The weather forecast symbols may not reflect the 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 BAR GRAPH 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. The scale on the right shows the comparison result.

The ' **0** ' in the middle of the scale means equal to present pressure, ' **+2** ' means the past pressure was higher than the present pressure by 2 mb.

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 ' **0H** '.

BAR GRAPH PRESSURE TREND

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 altitudes within a short time period, the air pressure changes, the barometric pressure change is not correct until the barometer has remained at a constant altitude for 24 hours.

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

ABOUT THE ALTITUDE SETTING

1. For monitoring the local barometric pressure reading, the user needs to select the 0 meter (preset value) for the altitude setting.

2. For monitoring the Sea Level barometric pressure reading at certain altitude, the user needs to select the local altitude (-100 to 2500 meters) for the altitude setting.

HOW TO SET THE ALTITUDE, CLOCK & CALENDAR

1. Press and hold the **[MODE]** button for 2 seconds to set the altitude. The '*ALT* ' indicator will turn on with the altitude setting flashing (display in meters). Increase/decrease the altitude in steps of 10 meters by pressing **[▲]** or **[▼]** button.

2. Press the **[MODE]** 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. The month digits will flash. Press the [▲] or [▼] button to increase/decrease the setting in 1 month increments until the desired month is displayed.

4. Once the month is correct, press [**MODE**] again to display the date digits. The date digits will be flashing. Use the [▲]button to increase the date in 1 day increments until the desired day is displayed.

5. Once the day is correct, press [**MODE**]. You'll see '12hr' or '24hr' flashing. Pressing the [▲] or [▼] button will toggle between the 12 and 24 hour settings.

6. Once the clock format is correct, press [**MODE**]. The hour digits will be flashing.Press the [▲] or [▼] button again to increase/decrease the clock in 1 hour increments until the desired hour is displayed.

7. Once the hour is correct, press [**MODE**] again to create the flashing minute digits. Pressing the [▲]or [▼] button will increase /decrease the minutes one at a time, until the correct time is displayed.

8. Press the [**MODE**] button to confirm all the settings you just entered. The unit will return to the clock display.

Note:

- Press and hold down the [▲] or [▼] button to set values more quickly.

HOW TO VIEW THE ALARM TIME & THE CALENDAR

To view the alarm time, by pressing the [**ALARM**] button once.

The alarm indicator ((•)) will appear with an alarm time. Press the [**ALARM**] button a second time to return to the normal clock display.

To view the current date, press the **[MODE]** button once, the month and the date will be displayed. Pressing **[MODE]** button again will return you to the normal clock display.

Note:

If you are in the calendar/alarm display and you do not press any button for 20 seconds, the screen will return to the normal clock display.
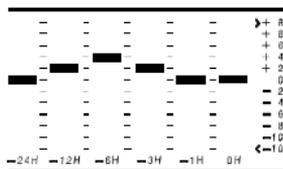
HOW TO SET THE DAILY ALARM

1. In normal time display, press and hold the [**ALARM**] button for about 2 seconds. The ' ' will be displayed; the ((•)) and the hour digits will be flashing. Press the [▲] or [▼] button to increase/decrease the alarm time in 1 hour increments, until the desired hour is displayed.
2. Press [**ALARM**] again and the indicator ((•)) and the minute digits will flash. Press the [▲] or [▼] button to increase/decrease in 1 minute increments until the correct time is displayed
3. Press **[ALARM]** a third time and press the [▲] button to toggle the alarm between deactivated (without) and **ACTIVATED** (will appear)
4. Press the [**ALARM**] button again. The daily alarm is now set, and your barometer will resume its normal time.
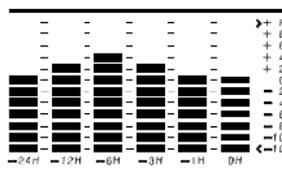
Note: If you get interrupted at any point in the alarm setting sequence, and you do not press any button for 20 seconds, the screen will return to the normal clock display.

HOW TO SELECT THE BAR OR LINE CHART FOR THE PRESSURE TREND

- In bar chart display, press and hold the **[MODE]** button and then reset the unit by pressing the **[RESET]** button on the back of the unit simultaneously to get the line chart display.

LINE CHART   **BAR CHART**

- In line chart display, reset the unit by pressing the **[RESET]** button once on the back of the unit to get the bar chart display.

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

HOW TO RECALL THE STORED PRESSURE HISTORY READING

The barometric pressure reading is being stored constantly during the past 24 hours. It can be recalled and displayed for each hour.

1. By pressing the **[HISTORY]** button repeatedly, the barometric pressure readings, which have been stored over the past 24 hours, will appear on the display in mb/hPa or inHg with the recording time up to ' -24 ' hour and back to ' 0 ' hour. (' 0 ' hour means present time).
2. Press and hold the **[HISTORY]** button to set the values more quickly.
3. If the pressure in one particular history hour has not yet been recorded, it will show ' **- - - -** ' for that hour on the past history review display.

UNITS OF MEASURE

PAST PRESSURE HISTORY IN 'HOUR'

PRESSURE READING

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HOW TO READ THE RELATIVE HUMIDITY AND COMFORT INDICATORS

The unit shows the indoor relative humidity automatically and such reading is temperature compensated. At the same time, the comfort indicators - *COMFORT*, *WET* or *DRY* will tell you if the current environment is comfortable, too wet or too dry.
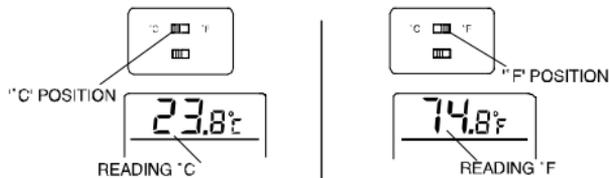
The comfort indicators will appear on the display when the following conditions are satisfied:

Indicator displays on the unit	Temperature Range	Humidity Range	Shows the Current Environment
COMFORT	20°C to 25°C (68°F to 77°F)	40% RH- 70% RH	Ideal range for both relative humidity and temperature
WET	FULL RANGE	Over 70%RH	Contain excess moisture.
DRY		Below 40%RH	Contain inadequate moisture

No Indicator	Less than 20°C(68°F) or More than 25°C(77°F)	40%RH to 70%RH	No comment

HOW TO SELECT THE TEMPERATURE UNITS OF MEASURE

The switch on the back of the Barometer selects between degrees Celsius and Fahrenheit. To select Celsius units, set the switch to °C. To select Fahrenheit units, set the switch to °F.

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HOW TO SELECT THE PRESSURE UNITS OF MEASURE

The switch on the back of the barometer selects between mb / hPa and inHg. To select mb / hPa, set the switch to mb / hPa. To select inHg, set the switch to inHg.

THE RESET BUTTON

If the unit does not operate properly, use a pointed object to push the **[RESET]** button once, which is located on the back of the unit.
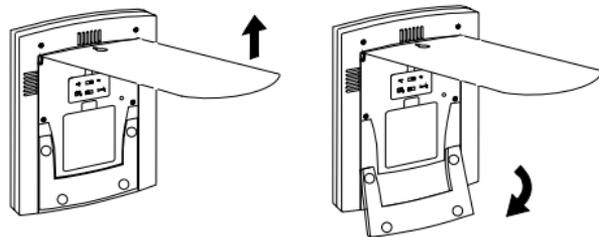
LOW BATTERY SIGNAL INDICATION

If the voltage of the batteries becomes low, the ' *BATT* ' indicator will be displayed. Please replace the batteries when the ' *BATT* ' indicator is displayed.
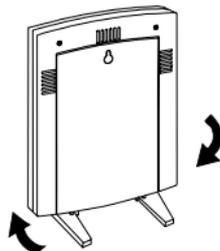
FREE STANDING OR WALL MOUNTING

Stand:

Your Barometer comes with a built-in stand for tabletop use. The back cover away from the back of the unit, ease the plastic stand from its slot and swing the stand until it locks into the bottom of the case. Replace the back cover.

1. LIFT AND PULL THE BACK COVER.

2. SWING THE STAND

3. REPLACE THE BACK COVER.

Wall Mount:

On the back of the Barometer you'll find a recess hole for wall handing. Place a screw (or whatever device you choose) into the wall until the head extends a little more than 4 mm from the wall. Place your barometer over the screw in the hanger slot, until it locks into place.

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MAINTENANCE

The following suggestions will help you care for the Barometer so you can enjoy it for years.

1. Keep the Barometer dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
2. Use and store the Barometer only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
3. Handle the Barometer gently and carefully. Dropping it can damage circuit boards and cause the Barometer to work improperly.
4. Keep the Barometer away from dust and dirt, which can cause premature wear of parts.
5. Wipe the Barometer with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the Barometer.
6. Use only fresh batteries of the required size and type. Always remove old or weak batteries. They can leak chemicals that can destroy electronic circuits.

7. Modifying or tampering with the Barometer's internal components can cause a malfunction and might invalidate its warranty.

SPECIFICATION

Operating temperature	: 0°C to +55°C (+32°F to + 131°F)
Temperature measuring range	: 0°C to +55°C (+32°F to + 131°F)
Temperature display resolution	: 0.5°C (0.9°F)
Temperature sampling cycle	: 9 seconds
Humidity measuring range	: 25% to 95% RH (at 25°C/77°F)
Humidity display resolution	: 1% RH
Humidity sampling cycle	: 9 seconds
Pressure measuring range	: 795 to 1050 mb / hPa (23.48 to 31.01 inHg)
Altitude compensation for barometric pressure reading	: -100 to 2500 meters
Pressure display resolution	: 1 mb / hPa (0.03inHg)

Pressure sampling cycle	:	15 minutes
Power source	:	Four pcs. UM-4 or '**AAA**' size batteries
Battery life	:	Approx. 1 Year
Dimension	:	183 x 133 x 27mm (H x W x D)
Weight	:	285gms (without battery)

ABOUT OREGON SCIENTIFIC

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OR

Call 949-608-2848 in the US.

For international enquiries, please visit: http://www2.oregonscientific.com/about/international/default.asp

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