

STARCK

WITH



OREGON
SCIENTIFIC

**Full Weather Station with Radio Controlled Clock
and AM/FM Radio (Model #: PS-L03 / PS-L03U)**

User Manual





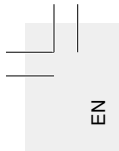


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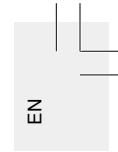
ABOUT THIS GUIDE

Congratulations on your selection of the Philippe Starck with Oregon Scientific Full Weather Station with Radio-Controlled Clock and AM/FM Radio (PS-L03 / PS-L03U). This powerful device bundles time keeping, alarm, indoor and wireless outdoor temperature and humidity monitoring, weather forecasting, and digital AM/FM radio into a single tool you can use from the convenience of your home.

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.

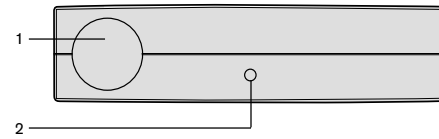
In this box, you will find:

- Main unit
- Remote sensor
- Batteries
- AC/DC power adapter



PRODUCT OVERVIEW

TOP VIEW



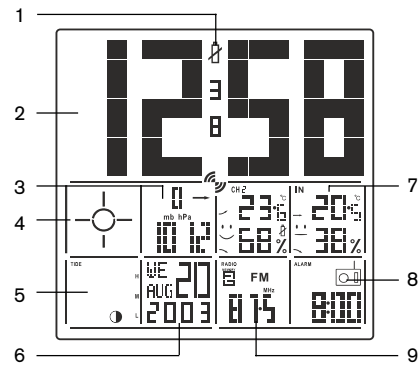
DESCRIPTIONS

1. Snooze / Light button (→ 12, 19)
2. Light sensor (→ 19)



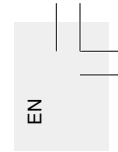


LCD DISPLAY

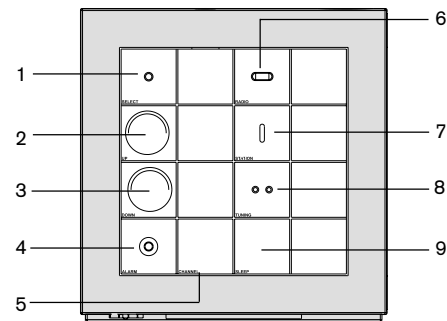


DESCRIPTIONS

1. Low batteries icon (→ 8)
2. Clock (→ 10)
3. Barometer (→ 13)
4. Weather forecast (→ 14)
5. Moon phase (→ 13)
6. Calendar (→ 12)
7. Temperature and humidity (→ 14)
8. Alarm (→ 11)
9. Radio (→ 17)



BACK VIEW



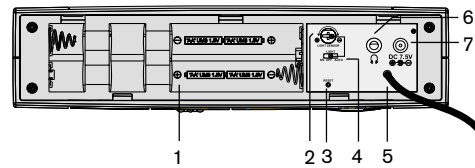
BUTTON DESCRIPTIONS

1. Select – switch modes / change settings
2. Up – increase setting / activate auto-synch (→ 10)
3. Down – decrease setting / deactivate auto-synch (→ 10)
4. Alarm –activate / deactivate alarm (→ 11)
5. Channel – switch remote unit (→ 15)
6. Radio – turn radio or radio alarm on/off (→ 12, 17)
7. Station –select a preset station (→ 18)
8. Tuning – select AM/FM band (→ 18)
9. Sleep – activate Sleep Timer (→ 18)





BOTTOM VIEW



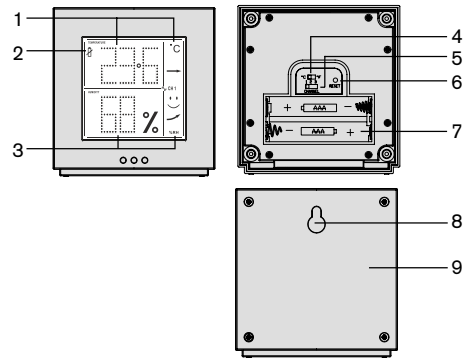
DESCRIPTIONS

1. Battery compartment (→ 8)
2. Light sensitivity knob (→ 19)
3. Reset button (→ 8, 20)
4. Backlight switch (→ 19)
5. Antenna (→ 17)
6. Headphone jack (→ 18)
7. DC power input jack (→ 8)

NOTE AC power adapter not shown.



REMOTE UNIT



DESCRIPTIONS


1. Temperature / Trend display
2. Low battery icon
3. Humidity / Trend / Comfort Level display
4. °C / °F switches
5. Channel switches
6. Reset button
7. Battery compartment
8. Wall-mount hole
9. Battery compartment lid





GETTING STARTED

BATTERIES

Batteries for the remote and main units are supplied with this product. Replace them whenever the low battery signal () displays. Remove the battery compartment lid on the bottom of the main unit, and insert the batteries. Use a small Phillips screwdriver to remove the remote unit compartment lid. Be sure to match the correct polarity, as shown in the battery compartment. Before you close the lid, press the **RESET** button with the point of a blunt object (such as a ball point pen).

NOTE Insert the batteries in the remote unit before you set up the main unit. Do not use rechargeable batteries.

AC POWER ADAPTER

An AC power adapter is supplied for use with the main unit. You must connect the power adapter if you wish to use the continuous backlight feature. The jack is located in the battery compartment.

NOTE If the AC power becomes unavailable, the unit will automatically switch to battery power.

SWITCH BETWEEN MODES

Press **SELECT**. The select mode will flash. The display will stop flashing if no key is pressed within 5 seconds.



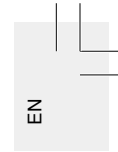
CHANGE SETTINGS

Press and hold **SELECT** for 2 seconds. Then, press **UP** or **DOWN** to change each setting. Press **SELECT** to switch options.

REMOTE UNIT SET UP

Up to 3 remote units can be used with this product to monitor outdoor temperature and humidity. The measurement unit (°C or °F) and channel number (1, 2, or 3) switches are located in the battery compartment, and should be set prior to installation.

NOTE Additional remote units sold separately. If you are using more than one remote unit, be sure to select a different channel number for each unit.



INSTALLATION

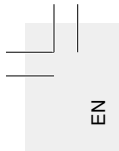
Mount the remote unit on a flat surface using the recess holes on the back of the unit.

For best results:

- Before you insert the batteries, select the measurement unit and channel number first.
- Place the unit out of direct sunlight and moisture.
- Do not place the remote unit more than 20 – 30 meters (60 – 90 feet) from the main (indoor) unit.
- Position the unit so that it faces the main (indoor) unit. Minimize obstructions such as doors, walls, and furniture.

You may need to experiment with various locations to get the best reception.





CLOCK

This product can automatically synchronize the date and time with official time-keeping organizations in Frankfurt, Germany (PS-L03) or Rugby, England (PS-L03U). When the unit is within 1500 km (932 miles) of a RF signal, the reception icon will blink during reception.

RECEPTION

Reception takes 2 – 10 minutes to complete. Once complete, the icon will stop blinking.

Strong signal	Weak signal	No signal

NOTE For best results, place the unit away from metal or electrical objects, and near a window with a clear view to the sky.

TO DISABLE OR ENABLE AUTO-SYNCHRONIZATION

In Clock mode, press **DOWN** for 2 seconds to disable the auto-synchronization. The unit will not respond to radio signals until you reactivate the synchronization.

To enable auto-reception, press **UP** for 2 seconds.

SET OR CHANGE THE CLOCK

1. Press **SELECT** to switch to the Clock Mode. The time will flash.
2. Press and hold **SELECT** for 2 seconds to enter the setting mode.
3. Select the 12/24-hour format, hour, and minute. Press **UP** or **DOWN** to change the setting. Press **SELECT** to confirm.

ALARM

When activated, the Melody Alarm starts quietly, then gradually becomes louder. It shuts off after two minutes. The LCD display lights up for the first 8 seconds.


The Radio alarm turns on the Radio automatically. It will turn off after 2 hours.

SET ALARM

1. Press **SELECT** several times until the Alarm area flashes.
2. Press and hold **SELECT** for 2 seconds to enter the setting mode.
3. Select the hour, minute, and alarm type (**▲** for Melody Alarm or **☐** for Radio Alarm). Press **UP** or **DOWN** to change the setting. Press **SELECT** to confirm.

If you choose **▲**, also select the melody (1 – 7) and volume level (Lo or Hi).



If you choose , use the radio control buttons to select the AM/FM band, radio station and volume level (→ 18).

4. Press **SELECT** again when you are finished.

SNOOZE

Press the **SNOOZE/LIGHT** button the top of the unit to temporarily disable the alarm for 8 minutes. The alarm icon will blink while Snooze is activated.

TO TURN THE ALARM OFF OR ON

Press **RADIO** to turn the radio alarm off. Press any other button to turn the melody alarm off.

To turn the alarm off completely (deactivate it for the next day), press **ALARM**.

CALENDAR

SET DATE

Clock auto-synchronization must be deactivated before you manually set the date. (→ 10)

1. Press **SELECT** several times until the calendar area flashes.
2. Press and hold **SELECT** for 2 seconds to enter the calendar setting mode.
3. Select the year, month, date, and language. Press **UP** or **DOWN** to change the setting. Press **SELECT** to confirm.

NOTE The language options are (E) English, (F) French, (D) German, (I) Italian, and (S) Spanish.

MOON PHASE




Press **SELECT** until the Calendar Area flashes. Then, press **UP** or **DOWN** to change the date and view the corresponding moon phase.

BAROMETER

This product tracks barometric pressure changes over the past 24 hours to provide the weather forecast (→ 14) and a trend line showing the direction of barometric change. Barometric changes are measured by the main (indoor) unit.

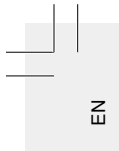
BAROMETRIC TREND

The barometric trend arrow for the last 30 minutes is always displayed.

Trend	Description	Pressure change (mb/hPa)	
		1 hr	6 hr
	Rising	+1	+3
	Steady	Steady	Steady
	Falling	-1	-3

VIEW THE LAST 24 HOURS

Press **SELECT** 2 times until the Barometer Area flashes. Then, press **UP** or **DOWN** to view the last 24 hours history.







SET UNIT AND ALTITUDE

You can set the unit of measurement (mb/hPa or inHg) and altitude. Setting the altitude allows the product to take more accurate barometric measurements.

1. Press **SELECT** 2 times until the Barometer Area flashes.
2. Press and hold **SELECT** for 2 seconds.
3. Select altitude (-100 meters to 2500 meters in increments of 10) and the unit of measurement (mb/hPa or inHg). Press **UP** or **DOWN** to change the setting. Press **SELECT** to confirm.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30 to 50 km (19 - 31 mile) radius with 70 to 75 percent accuracy. The weather forecast is always displayed.

Clear	Partly Cloudy	Cloudy	Rainy
			

TEMPERATURE AND HUMIDITY

With the press of a button, you can check the current indoor or outdoor temperature, humidity percentage, comfort level, trend, and record measurements.



Outdoor measurements are collected by the remote unit.

Temperature is give at the top; humidity is below.

VIEW MIN / MAX / CURRENT MEASUREMENTS

Press **SELECT** 3 times until the Temperature and Humidity Areas flash. Press **UP** or **DOWN** to scan the readings.

CLEAR MIN / MAX MEASUREMENTS

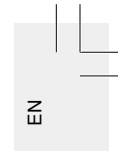
While viewing Min/Max measurements, press and hold **UP** or **DOWN** for 2 seconds until a beep sounds. This clears the previous measurements from the memory.

SELECT REMOTE UNIT CHANNEL




While in the Temperature / Humidity Mode, press **CHANNEL** to switch between CH 1, 2, or 3, or press and hold **CHANNEL** for 2 seconds to enter Auto scan mode. If only 1 remote unit is in use, you will not be able to change channels or Auto scan. If you select "Auto", the channel will change every 3 seconds. To deactivate, press and hold **CHANNEL** for 2 seconds again.

SENSOR SEARCHING

If there is no remote unit signal, the temperature and humidity measurement will be blank. Check the remote unit batteries, or press and hold **UP** and **DOWN** for 2 seconds to search for the remote unit(s).








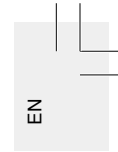
Searching	No sensor	Sensor found
		

NOTE Signals from household electrical appliances such as doorbells and home security systems can cause temporary reception failures between the indoor and outdoor units. This is normal and does not affect the general performance of the product. Reception will automatically resume once the interference ends.

COMFORT ZONE




The indoor and outdoor comfort zones are shown for the following conditions.

Zone	Temperature	Relative Humidity
 Wet	Any	>70%
 Dry	Any	<40%
 Comfort	20 – 25 ° C (68 - 77 ° F)	40 – 70%



TRENDS

The trend arrow for the last 30 minutes always displays. Indoor and outdoor temperature and humidity trends are shown separately.

Trend	Temperature	Relative Humidity
	+0.5 °C	+3%
	Steady	Steady
	-0.5 °C	-3%

SET UNIT

While in Temperature / Humidity Mode, press **SELECT** for 2 seconds. Press **UP** or **DOWN** to switch between °C and °F. Press **SELECT** to confirm.

RADIO

You can listen to Phase Lock Loop (PLL) digital radio broadcasts with this product.

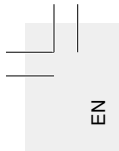
ANTENNA

The antenna wire is located in the battery compartment. Position it for the best reception.

TURN THE RADIO ON OR OFF

Press the **RADIO** button.





VOLUME

Press **UP** or **DOWN**. There are 8 volume levels.

SWITCH AM/FM BAND

Press **TUNING** to enable auto-tuning. Press again to switch AM/FM band.

SELECT STATION

Press **STATION**. There are 16 preset channels: 8 for FM and 8 for AM.

TUNING

Press **TUNING**. Then, press **UP** or **DOWN** to scan the available frequencies. Press and hold **UP** or **DOWN** for 2 seconds to auto-scan. The scanning will stop when an available frequency is found.

STORE STATION TO MEMORY

Press **STATION** for 2 seconds. The assigned number (1 – 8) will show in the Radio Area.

SLEEP TIMER

Press **SLEEP**. To change the timer length (0 – 120 minutes in increments of 10) press **UP** or **DOWN**. The radio automatically turns off when the timer reaches 0. To manually turn off the radio, press **RADIO**.

HEADPHONES

The headphone jack is located in the battery compartment. Use the headphones for stereo-quality radio listening.

BACKLIGHT

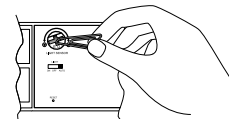
Press **SNOOZE/LIGHT** to illuminate the backlight for 5 seconds.

CONTINUOUS BACKLIGHT

The AC power adapter must be plugged in to use this feature (→ 8).

1. The **BACKLIGHT** switch is located in the battery compartment. Move it to the "ON" position to enable the continuous backlight. Move it to the "OFF" position to disable.
2. Move it to the "AUTO" position to enable continuous backlight controlled by light intensity. When activated, the backlight will be on whenever the unit perceives that the room is dark.

3. The **Light Sensitivity knob** is located in the battery compartment. Rotate to adjust.



4. When activated, the continuous backlight will be half as bright as usual. To achieve full brightness, press **SNOOZE/LIGHT**.



RESET SYSTEM

The **RESET** buttons are located in the battery compartments for the main and remote units. Press these buttons with the tip of a blunt object (such as a ball point pen) whenever you change the batteries, or whenever performance is not behaving as expected (e.g., unable to establish radio frequency link with remote unit or automatic clock, etc.) This will return all settings to default value, and you will lose all stored information (minimum / maximum temperature and humidity, etc.).

SAFETY AND CARE

Wash the unit with a slightly damp cloth and mild detergent. Avoid dropping the unit or placing it in a location where the antenna or AC power adapter will be stepped on.

WARNINGS

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

- 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 temperature or 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.

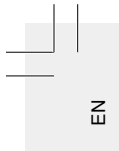
- Do not make any changes or modifications to this product. Unauthorized changes may void your right to use the product.
- The content of this user manual are subject to change without notice.
- Images not drawn to scale.

TROUBLESHOOTING

Check here before contacting our customer service department.

Problem	Symptom	Remedy
Temp	Shows "LLL" or "HHH"	Temperature is out-of-range.
Calendar	Strange date / month	Change language (→ 12)

Problem	Symptom	Remedy
Backlight	No continuous backlight	Plug in AC power adapter. Check the BACKLIGHT switch. (→ 8, 19)
Radio	Reception is poor / static	Select radio format (→ 17)
		Adjust the antenna (→ 17)
		Place clock near a window (→ 10)



Problem	Symptom	Remedy
Remote unit	Cannot locate remote unit	Check batteries (→ 8)
		Check location (→ 9)
	Cannot change channel	Check sensors. Only one sensor is working (→ 15)
Clock	Cannot auto-synchronize	1. Remove batteries. 2. Press RESET . All memory items will return to default. 3. Replace batteries.



Problem	Symptom	Remedy
		4. Place clock near window / away from electrical devices, and wait 10 – 20 minutes. If it still fails, you may be too far from a signal.
	Cannot change clock	Disable auto-synchronization (→ 10)
Baro	Strange reading	Set altitude / unit (→ 14)



SPECIFICATIONS

Main unit dimensions

L x W x H	181 x 45 x 185.3 mm (7.1 x 1.77 x 7.3 inches)
Weight	969 grams with batteries

Remote unit dimensions

L x W x H	75 x 35 x 78.3mm (3 x 1.4 x 3.1 inches)
Weight	136 grams with battery

Temperature

Unit	°C or °F
Range	Main unit: -5 °C to 50 °C (23 °F to 122 °F)

Resolution

Comfort

Memory

Trend

Remote Unit:	-20 °C to 60 °C (-4 °F to 140 °F)
Resolution	0.1 °C (0.2° F)
Comfort	20 °C to 25 °C (68 °F to 77 °F) (see also, Relative humidity)
Memory	Minimum / maximum
Trend	+/- 0.5 °C (+/- 0.9 °F) change

Relative humidity

Range

Resolution

Comfort

Memory

Trend

Main & Remote Unit:	25% to 95%
Resolution	1%
Comfort	40% to 70% (see also, Temperature)
Memory	Minimum / maximum
Trend	3% change



Barometer

Unit mb/hPa or inHg
 Range 500 to 1050mb
 (14.77 to 31.01 inHg)
 Resolution 1mb (0.03 inHg)
 Altitude -100 to 2500 meters (-328 to 8202 feet)
 Display Rainy, cloudy, partly cloudy, sunny
 Memory 24 hour
 Trend 1mb change in 1 hour or 3mb change in 6 hours

Remote unit

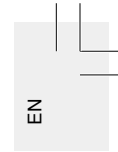
RF frequency 433 MHz
 Range 30 meters (98 feet) with no obstructions
 Transmission approximately every 40 seconds

Channel No. 1, 2, or 3
 Unit °C or °F

Radio-controlled clock

Synchronization Auto or disabled
 Clock display HH:MM:SS
 Hour format 12hr AM/PM (MSF format)
 24hr (DCF format)
 Calendar DD/MMM; weekday selection in 5 languages (E, D, F, I, S)
 Moon phase High, medium, and low tide
 Alarm 7 melody or radio; 2 minute crescendo (melody only)
 Snooze 8 minutes (melody only)





Radio

Type Digital tuning PLL (Phase Lock Loop) stereo

Band 531 to 1602 kHz (AM)
87.5 to 108.0 MHz (FM)

Stations 8 AM / 8 FM

Volume 8 levels (0 – 7)

Sleep timer 120 minutes in increments of 10

Headphones Stereo-sound (not supplied)

Antenna Wire

Power

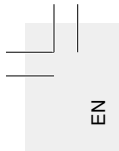
Main unit 4 x UM-3 (AA) 1.5V alkaline batteries (back-up)
AC/DC 7.5V power adapter (for normal operation and continuous backlight)

Remote unit 2 x UM-4 (AAA) 1.5V alkaline batteries

ADDITIONAL RESOURCES

Visit our website (www.oregonscientific.com) to learn more about your new product and other Oregon Scientific products such as digital cameras, hand-held organizers, health and fitness gear, and weather stations. 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 **TX 07** and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

**Radio frequency spectrum
(Article 3.2 of the R&TTE Directive)**

applied standard(s)

ETSI EN 300 220-3 (Ver. 1.1.1):2000-09

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

applied standard(s)

ETSI EN 301 489-1-3 (Ver. 1.4.1):2002-08

**Safety of information technology equipment
(Article 3.1.a of the R&TTE directive)**

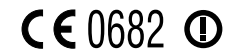
applied standard(s)

EN 60950:2000

Additional information:

The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE marking.

VS-Villingen / Germany August 2003
Gerhard Preis
R&TTE Representative of manufacturer



RTT&E Compliant Countries:

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

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