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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

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.

<table>
<thead>
<tr>
<th>Strong signal</th>
<th>Weak signal</th>
<th>No signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟</td>
<td>⭐️</td>
<td>✿</td>
</tr>
</tbody>
</table>

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 \( \square \), 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 at 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.

<table>
<thead>
<tr>
<th>Trend</th>
<th>Description</th>
<th>Pressure change (mb/hPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rising</td>
<td>+1</td>
<td>+3</td>
</tr>
<tr>
<td>Steady</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>Failing</td>
<td>-1</td>
<td>-3</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Clear</th>
<th>Partly Cloudy</th>
<th>Cloudy</th>
<th>Rainy</th>
</tr>
</thead>
</table>

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 given 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).
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.

<table>
<thead>
<tr>
<th>Zone</th>
<th>Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet</td>
<td>Any</td>
<td>&gt;70%</td>
</tr>
<tr>
<td>Dry</td>
<td>Any</td>
<td>&lt;40%</td>
</tr>
<tr>
<td>Comfort</td>
<td>20 – 25 °C (68 - 77 °F)</td>
<td>40 – 70%</td>
</tr>
</tbody>
</table>
TRENDS
The trend arrow for the last 30 minutes always displays. Indoor and outdoor temperature and humidity trends are shown separately.

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.

<table>
<thead>
<tr>
<th>Trend</th>
<th>Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gradual</td>
<td>+0.5 °C</td>
<td>+3%</td>
</tr>
<tr>
<td>Steady</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>Gradual</td>
<td>-0.5 °C</td>
<td>-3%</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>Shows “LLL” or “HHH”</td>
<td>Temperature is out-of-range.</td>
</tr>
<tr>
<td>Calendar</td>
<td>Strange date / month</td>
<td>Change language (→ 12)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlight</td>
<td>No continuous backlight</td>
<td>Plug in AC power adapter. Check the BACKLIGHT switch. (→ 8, 19)</td>
</tr>
<tr>
<td>Radio</td>
<td>Reception is poor / static</td>
<td>Select radio format (→ 17)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust the antenna (→ 17)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Place clock near a window (→ 10)</td>
</tr>
<tr>
<td>Problem</td>
<td>Symptom</td>
<td>Remedy</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>Remote unit</td>
<td>Cannot locate remote unit</td>
<td>Check batteries (→ 8)</td>
</tr>
<tr>
<td>Clock</td>
<td>Cannot change channel</td>
<td>Check sensors. Only one sensor is working (→ 15)</td>
</tr>
<tr>
<td>Clock</td>
<td>Cannot auto-synchronize</td>
<td>1. Remove batteries. 2. Press <strong>RESET</strong>. All memory items will return to default. 3. Replace batteries.</td>
</tr>
<tr>
<td>Baro</td>
<td>Strange reading</td>
<td>Set altitude / unit (→ 14)</td>
</tr>
</tbody>
</table>

**Problem Symptom Remedy**

**Cannot change clock**

1. Remove batteries.
2. Press **RESET**. All memory items will return to default.
3. Replace batteries.

**Disable auto-synchronization** (→ 10)

**Baro Strange reading**

Set altitude / unit (→ 14)

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.
### 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 78.3 mm (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**: 0.1 °C (0.2 °F)

**Comfort**: 20 °C to 25 °C (68 °F to 77 °F)

**Memory**
- **Minimum / maximum Trend**: ± 0.5 °C (+/- 0.9 °F) change

**Relative humidity**
- **Range**: Main & Remote Unit: 25% to 95%
- **Resolution**: 1%

**Comfort**: 40% to 70%

**Memory**
- **Minimum / maximum Trend**: 3% change

Remote Unit: -20 °C to 60 °C (-4 °F to 140 °F)

Relative humidity
- **Range**: Main & Remote Unit: 25% to 95%
- **Resolution**: 1%

Comfort: 40% to 70%

Memory: Minimum / maximum Trend: 3% change
### Barometer

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

### Remote unit

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF frequency</td>
<td>433 MHz</td>
</tr>
<tr>
<td>Range</td>
<td>30 meters (98 feet) with no obstructions</td>
</tr>
<tr>
<td>Transmission</td>
<td>approximately every 40 seconds</td>
</tr>
</tbody>
</table>

### Radio-controlled clock

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel No.</td>
<td>1, 2, or 3</td>
</tr>
<tr>
<td>Unit</td>
<td>°C or °F</td>
</tr>
<tr>
<td>Synchronization</td>
<td>Auto or disabled</td>
</tr>
<tr>
<td>Clock display</td>
<td>HH:MM:SS</td>
</tr>
<tr>
<td>Hour format</td>
<td>12hr AM/PM (MSF format)</td>
</tr>
<tr>
<td>Calendar</td>
<td>DD/MMM; weekday selection in 5 languages (E, D, F, I, S)</td>
</tr>
<tr>
<td>Moon phase</td>
<td>High, medium, and low tide</td>
</tr>
<tr>
<td>Alarm</td>
<td>7 melody or radio; 2 minute crescendo (melody only)</td>
</tr>
<tr>
<td>Snooze</td>
<td>8 minutes (melody only)</td>
</tr>
<tr>
<td><strong>Radio</strong></td>
<td><strong>Remote unit</strong></td>
</tr>
<tr>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>Type</td>
<td>2 x UM-4 (AAA) 1.5V alkaline batteries</td>
</tr>
<tr>
<td>Band</td>
<td><strong>Power</strong></td>
</tr>
<tr>
<td>531 to 1602 kHz (AM)</td>
<td>4 x UM-3 (AA) 1.5V alkaline batteries (back-up)</td>
</tr>
<tr>
<td>87.5 to 108.0 MHz (FM)</td>
<td>AC/DC 7.5V power adapter (for normal operation and continuous backlight)</td>
</tr>
<tr>
<td>Stations</td>
<td></td>
</tr>
<tr>
<td>8 AM / 8 FM</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td></td>
</tr>
<tr>
<td>8 levels (0 – 7)</td>
<td></td>
</tr>
<tr>
<td>Sleep timer</td>
<td></td>
</tr>
<tr>
<td>120 minutes in increments of 10</td>
<td></td>
</tr>
<tr>
<td>Headphones</td>
<td>Stereo-sound (not supplied)</td>
</tr>
<tr>
<td>Antenna</td>
<td>Wire</td>
</tr>
</tbody>
</table>

**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.
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

**R&TTE Compliant Countries:**
All EC Countries, Switzerland and Norway

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