Full Weather Station with Radio Controlled
Clock and AM / FM Radio
(Model #: PS-M03 / PS-M03U)

User Manual
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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-M03 / PS-M03U).

This powerful device bundles time keeping, alarm, indoor and wireless outdoor temperature and humidity monitoring, weather forecasting, and digital-tuned 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 unit
- Batteries
- AC power adapter
PRODUCT OVERVIEW

TOP AND BATTERY COMPARTMENT VIEW

DESCRIPTIONS
1. Snooze / Light button (→ 12, 19)
2. Light sensor (→ 19)
BOTTOM AND SIDE VIEW

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

NOTE AC power adapter not shown.
LCD DISPLAY DESCRIPTIONS

1. Low battery icon (→ 8)
2. Clock (→ 10)
3. Barometer (→ 13)
4. Weather forecast (→ 14)
5. Moon phase (→ 13)
6. Calendar (→ 12)
7. Temperature and humidity (→ 15)
8. Alarm (→ 11)
9. Radio (→ 17)
BACK VIEW

BUTTON DESCRIPTIONS

1. Select - switch modes / change settings (→ 8, 9)
2. Up - increase setting / activate auto-synch (→ 10)
3. Down - decrease setting / deactivate auto-synch (→ 10)
4. Alarm - activate / deactivate alarm (→ 12)
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)
REMOTE UNIT

1. Temperature / Trend display (→ 15, 17)
2. Low battery icon (→ 8)
3. Humidity / Trend / Comfort Level display (→ 15, 16, 17)
4. °C/°F switch (→ 9)
5. Channel switch (→ 9)
6. Reset button (→ 8, 20)
7. Battery compartment (→ 8)
8. Wall mount hole
9. Battery compartment lid

7
GETTING STARTED

BATTERIES
Batteries for the remote and main units are supplied with this product. Replace them whenever the low battery signal (\\\text{\textregistered}) 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 \textit{RESET} button with the point of a blunt object (such as a ball point pen).

\textbf{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. It is also recommended for use with the Radio. The jack is located on the side of the unit.

\textbf{NOTE} If the AC power becomes unavailable, the unit will automatically switch to battery power.

SWITCH BETWEEN MODES
Press \textbf{SELECT}. The selected 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 hole 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-M03) or Rugby, England (PS-M03U). 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 (Δ for Melody Alarm or for Radio Alarm). Press **UP** or **DOWN** to change the setting. Press **SELECT** to confirm.

If you choose Δ, 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 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></td>
<td></td>
<td>1 hr</td>
</tr>
<tr>
<td>⇑</td>
<td>Rising</td>
<td>+1</td>
</tr>
<tr>
<td>⇓</td>
<td>Falling</td>
<td>-1</td>
</tr>
<tr>
<td>⇐</td>
<td>Steady</td>
<td>Steady</td>
</tr>
</tbody>
</table>
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.

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.

<table>
<thead>
<tr>
<th>Clear</th>
<th>Partly Cloudy</th>
<th>Cloudy</th>
<th>Rainy</th>
</tr>
</thead>
<tbody>
<tr>
<td>☀</td>
<td>☁</td>
<td>☁</td>
<td>☁</td>
</tr>
</tbody>
</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 RECORDS
While viewing Min/Max records, 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 measurements 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).

<table>
<thead>
<tr>
<th>Searching</th>
<th>No sensor</th>
<th>Sensor found</th>
</tr>
</thead>
</table>

**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.

<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.

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

**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 on the side of the unit. 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 on the side of the unit. Use the headphones for stereo-quality radio listening.
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.

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**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.
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.

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, preset stations, 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.
• Do not make any changes or modifications to this product. Unauthorized changes may void your right to use the product.
• The contents of this user guide 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>Baro</td>
<td>Strange reading</td>
<td>Set altitude / unit (( \rightarrow ) 14)</td>
</tr>
<tr>
<td>Backlight</td>
<td>No continuous backlight</td>
<td>Plug in AC power adapter. Check the BACKLIGHT switch. (( \rightarrow ) 8, 19)</td>
</tr>
<tr>
<td>Calendar</td>
<td>Strange date / month</td>
<td>Change language (( \rightarrow ) 12)</td>
</tr>
</tbody>
</table>
### Problem Symptom Remedy

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock</td>
<td>Cannot auto-synchronize</td>
<td>1. Remove batteries.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Press <strong>RESET</strong>. All memory items will return to default.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Replace batteries.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Place clock near window / away from electrical devices, and wait 10 - 20 minutes.</td>
</tr>
<tr>
<td>Radio</td>
<td>Reception is poor / static</td>
<td>Disable auto-synchronization ( \rightarrow 10 )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select radio format ( \rightarrow 10 )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Place clock near a window ( \rightarrow 10 )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust the antenna ( \rightarrow 17 )</td>
</tr>
<tr>
<td>Remote unit</td>
<td>Cannot locate remote unit</td>
<td>Check batteries ( \rightarrow 8 )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check location ( \rightarrow 9 )</td>
</tr>
<tr>
<td>Problem</td>
<td>Symptom</td>
<td>Remedy</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Cannot change channel</td>
<td>Check sensors. Only one sensor is working (→ 15)</td>
<td></td>
</tr>
<tr>
<td>Temp</td>
<td>Shows “LLL” or “HHH”</td>
<td>Temperature is out-of-range.</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

**Dimensions:**
- L x W x H: 129 x 43 x 133.3 mm (5.1 x 1.7 x 5.3 inches)
- Weight: 525 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 in)
- Weight: 136 grams with battery

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

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

**Remote Unit**

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

**Relative humidity**

- **Remote Unit**: Main & Remote Unit: 25% to 95%
- **Resolution**: 1%
- **Comfort**: 40% to 70%
- **Memory**: Minimum / maximum
- **Trend**: 3% change

**Remote unit**

- **RF frequency**: 433 MHz
- **Range**: 30 meters (98 feet) with no obstructions
- **Transmission**: Approximately every 40 seconds

**Temperature**

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  - **Resolution**: 1%
  - **Comfort**: 40% to 70%
  - **Memory**: Minimum / maximum
  - **Trend**: 3% change
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)
- 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 NO

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