STARCK
WITH
OREGON SCIENTIFIC

Full Weather Station with Radio Controlled Clock and Projection
(Model #:PS L02A)

User Manual
# TABLE OF CONTENTS

About this guide ........................................................... 2
Product overview ....................................................... 3
Getting started .......................................................... 8
  Batteries .............................................................. 8
  AC power adapter ............................................... 8
  Switch between modes ....................................... 9
  Change settings .................................................. 9
Remote unit setup ...................................................... 9
Clock ...................................................................... 10
Alarm ...................................................................... 11
Calendar .................................................................... 12
Moon phase ............................................................ 12
Barometer ............................................................... 13
Weather forecast ..................................................... 14
Temperature & humidity ........................................... 14
Backlight ................................................................. 17
Projector ................................................................. 18
Reset system ........................................................... 19
Safety and care ........................................................ 20
Warnings ................................................................... 20
Troubleshooting ....................................................... 21
Specifications .......................................................... 22
About Oregon Scientific ............................................. 25
FCC Statement ........................................................ 25
ABOUT THIS GUIDE

Congratulations on your selection of the Philippe Starck with Oregon Scientific Full Weather Station with Radio Controlled Clock and Projection (PS L02A). This innovative time piece provides not only time keeping, but also alarm clock, indoor and wireless outdoor temperature, humidity monitoring, weather forecast, and projection clock features into one convenient package.

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

1. Snooze/Light and Projection Button
2. Light sensor
3. Projection lens
LCD DISPLAY

1. Low batteries icon
2. Clock
3. Barometer
4. Weather forecast
5. Moon phase
6. Calendar
7. Temperature and humidity
8. Alarm
BACK VIEW

BUTTON DESCRIPTIONS

1. Focus – focus projector
2. Select – switch modes / change settings
3. Rotation – rotate projector
4. Up – increase setting / activate auto-synch
5. Down – decrease setting / deactivate auto-synch
6. Alarm – activate / deactivate alarm
7. Channel – switch remote unit
DESCRIPTIONS
1. Battery compartment
2. Light sensitivity knob
3. Reset button
4. Backlight switch
5. DC power input jack

NOTE AC power adapter not shown.
REMOTE UNIT

1. Temperature / Trend display
2. Low battery icon
3. Humidity / Trend / Comfort Level display
4. °F / °C 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 (empl) 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 projection or backlight features. 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 (°F or °C) 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 60 – 90 feet (20 – 30 meters) 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 the US Atomic Clock. When the unit is within 932 miles (1500 km) of a RF signal, the reception icon will blink.

**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 US time-zone (Pacific, Mountain,
Central or Eastern), 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.

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, melody (1-7) and
volume level (Lo or Hi). Press UP or DOWN to
change the setting. Press SELECT to confirm.
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 any button to stop the alarm.

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. (→ pg.11)

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 (→ pg.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></td>
<td>6 hr</td>
</tr>
<tr>
<td>🌞</td>
<td>Rising</td>
<td>+1</td>
</tr>
<tr>
<td>🌞</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>🌞</td>
<td>Failing</td>
<td>-1</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 (-328 to 8202 feet in increments of 32.81 feet) 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 19 - 31 mile (30 to 50 km) 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>
<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 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).
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>68 - 77 °F</td>
<td>40 – 70%</td>
</tr>
<tr>
<td></td>
<td>(20 - 25 °C)</td>
<td></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>+0.9 °F</td>
<td>+3%</td>
</tr>
<tr>
<td>→</td>
<td>Steady</td>
<td>Steady</td>
</tr>
<tr>
<td>↓</td>
<td>-0.9 °F</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 °F and °C. Press **SELECT** to confirm.

**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 (→ pg.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.

**PROJECTOR**
This product has a built-in projector for viewing time and alarm status at night.

**NOTE** The maximum projection range is 2 meters (6 feet). The image gets larger the farther you display it.

**PROJECT TIME / ALARM STATUS**
In a darkened room, press SNOOZE/LIGHT to display the time and alarm status for 5 seconds.

**FLIP IMAGE**
Press SNOOZE/LIGHT again while the projector is on.
**ROTATE IMAGE**
The **ROTATION** switch is located on the back of the unit. Rotate to adjust.

**FOCUS IMAGE**
The **FOCUS** switch is located on the back of the unit. Rotate to adjust.

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

Press and hold **SNOOZE/LIGHT** for 2 seconds when the projection is on. When activated, the time and alarm status will project continuously.

Press and hold **SNOOZE/LIGHT** for 2 seconds again to deactivate.

**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
Clean the unit with a slightly damp cloth and mild detergent. Avoid dropping the unit or placing it in a location where the 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:

NOTE
Do not make any unauthorized modifications to this product. Unauthorized modifications will void the warranty.

- 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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>Shows &quot;LLL&quot; or &quot;HHH&quot;</td>
<td>Temperature is out-of-range.</td>
</tr>
<tr>
<td>Calendar</td>
<td>Strange date / month</td>
<td>Change language (→ pg.12)</td>
</tr>
<tr>
<td>Backlight</td>
<td>No continuous backlight</td>
<td>Plug in AC power adapter. Check the BACKLIGHT switch. (→ pg.8, 17)</td>
</tr>
<tr>
<td>Projector</td>
<td>No continuous backlight or projection</td>
<td>Plug in AC power adapter (→ pg.8, 17, 18)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote unit</td>
<td>Cannot locate remote unit</td>
<td>Check batteries (→ pg.8)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check location (→ pg.9)</td>
</tr>
<tr>
<td></td>
<td>Cannot change channel</td>
<td>Check sensors. Only one sensor is working (→ pg.15)</td>
</tr>
<tr>
<td>Clock</td>
<td>Cannot auto-synchronize</td>
<td>Make sure auto-synchronization is enabled (→ pg.11)</td>
</tr>
<tr>
<td></td>
<td></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>
</tbody>
</table>
### SPECIFICATIONS

#### Main unit dimensions

<table>
<thead>
<tr>
<th>L x W x H</th>
<th>7.1 x 1.77 x 7.3 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(181 x 45 x 185.3 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.02 lbs / 914 grams with battery</td>
</tr>
</tbody>
</table>

#### Remote unit dimensions

<table>
<thead>
<tr>
<th>L x W x H</th>
<th>3 x 1.4 x 3.1 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(75 x 35 x 78.3mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.3 lbs / 136 grams with battery</td>
</tr>
</tbody>
</table>

### Problem Symptom Remedy

<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 (→ pg.14)</td>
</tr>
<tr>
<td></td>
<td>Cannot change clock</td>
<td>Disable auto-synchronization (→ pg.11)</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. If it still fails, you may be too far from a signal.</td>
</tr>
</tbody>
</table>
Temperature

Unit: °F or °C
Range: Main unit: 23 °F to 122 °F (-5 °C to 50 °C)
Remote Unit: -4 °F to 140 °F (-20 °C to 60 °C)
Resolution: 0.2 °F (0.1 °C)
Comfort: 68 °F to 77 °F (20 °C to 25 °C)
(see also, Relative humidity)
Memory: Minimum / maximum
Trend: +/- 0.9 °F (+/- 0.5 °C) change

Relative humidity

Range: 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: -328 to 8202 feet (-100 to 2500 meters)
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: 98 feet (30 meters) with no obstructions
- Transmission: approximately every 40 seconds
- Channel No.: 1, 2, or 3
- Unit: °F or °C

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

Projector
- Display: Current time / alarm status
- Rotation: 180° and image flip
- Focusing: Manual
- Projection: 5-second or continuous

Power
- Main unit: 4 x UM-3 (AA) 1.5V alkaline batteries (back-up)
- AC/DC 6V power adapter (for normal operation and continuous backlight and projector)
- Remote unit: 2 x UM-4 (AAA) 1.5V alkaline batteries
ABOUT OREGON SCIENTIFIC
Visit our website (www.oregonscientific.com) to learn more about other Oregon Scientific™ products such as digital cameras, projection clocks, 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.

FCC STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**DECLARATION OF CONFORMITY**

The information below is not to be used as contact for support or sales. Please call our customer service number (listed on our website at [www.oregonscientific.com](http://www.oregonscientific.com), or on the warranty card for this product) for all inquiries instead.

We

Name: Oregon Scientific, Inc.

Address: 19861 SW 95th Place,
Tualatin, Oregon 97062 USA

Telephone No.: 1-800-853-8883

Fax No.: 1-503-684-8883
declare that the product
Product No.: PS L02A
Product Name: Remote Thermo Hygro
Manufacturer: IDT Technology Limited
Address: Block C, 9/F, Kaiser Estate,
Phase 1, 41 Man Yue St.,
Hung Hom, Kowloon,
Hong Kong

is in conformity with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION
— The content of this manual is subject to change without further notice.
— Due to printing limitation, the displays shown in this manual may differ from the actual display.
— The contents of this manual may not be reproduced without the permission of the manufacturer.

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