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Sun System HGC748205

Sun System PAR Meter HGC748205 Instruction Manual

Model: HGC748205

1. INTRODUCTION

The Sun System PAR Meter with Remote Sensor is designed to accurately measure Photosynthetically Active Radiation (PAR). This device is essential for monitoring light levels for plant growth, both indoors with grow lights and outdoors under natural sunlight. Its compact size and remote sensor offer flexibility and ease of use for various applications.



Figure 1: Sun System PAR Meter with remote sensor unit.

2. PRODUCT OVERVIEW

The Sun System PAR Meter is a robust and user-friendly device. Key features include:

- Accurate measurement of Photosynthetically Active Radiation (PAR).
- Equipped with a remote sensor for flexible positioning and precise readings.
- Suitable for use with Sun System grow lights and natural sunlight.
- Compact design for easy handling and storage.

3. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to do so may result in injury or damage to the product.

- Do not expose the meter or sensor to extreme temperatures or direct moisture.
- Keep the device out of reach of children.
- Use only the specified battery type (Lithium Ion) and ensure correct polarity during installation.
- Avoid dropping the device or subjecting it to strong impacts.

- Do not attempt to disassemble or repair the unit yourself. Refer to qualified personnel for service.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- Sun System PAR Meter Unit
- Remote Sensor with cable
- Lithium Ion Battery (pre-installed or separate)



Figure 2: Main components of the PAR Meter system.

5. SETUP

1. **Battery Installation:** The PAR Meter requires 1 Lithium Ion battery (included). If not pre-installed, open the battery compartment on the back of the meter unit and insert the battery, observing the correct polarity. Securely close the compartment.
2. **Connect Remote Sensor:** Plug the remote sensor cable into the designated port on the PAR Meter unit. Ensure a firm connection.



Figure 3: Rear view of the PAR Meter unit, indicating product label and potential battery/sensor connection area.

6. OPERATING INSTRUCTIONS

The Sun System PAR Meter is designed for straightforward operation.

1. **Power On:** Press the power button (usually marked with a  symbol) to turn on the device. The display will illuminate.
2. **Select Mode:** Press the 'mode' button to scroll through available operating options.
3. **Adjust Settings:** Use the arrow buttons ( / ) to select specific options or adjust settings within a chosen mode.

4. **Take Readings (Sample Mode):** In 'sample' mode, position the remote sensor at the desired location where you wish to measure PAR. Ensure the sensor's light-receiving surface is unobstructed and facing the light source. Press the 'sample' button to record data.
5. **Review Stored Data:** Use the arrow buttons to review any data stored in 'sample' mode.
6. **Power Off:** Press and hold the power button to turn off the device when not in use.



Figure 4: Close-up view of the remote PAR sensor, which should be positioned to face the light source.

7. MAINTENANCE

- **Cleaning:** Gently wipe the meter unit and sensor with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.
- **Sensor Care:** Keep the sensor's light-receiving surface clean and free from dust or debris to ensure accurate readings.

8. TROUBLESHOOTING

If you encounter issues with your PAR Meter, refer to the following common solutions:

- **No Display/Device Not Turning On:** Check battery installation and ensure the battery has sufficient charge. Replace if necessary.
- **Inaccurate Readings:** Ensure the remote sensor is clean and properly positioned. Verify that the sensor cable is securely connected.
- **Buttons Unresponsive:** Try turning the device off and on again. If the issue persists, replace the battery.

For persistent issues not resolved by these steps, contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model Number	HGC748205
Product Dimensions	4.4 x 6.7 x 2.3 inches
Item Weight	7.2 ounces
Manufacturer	Hawthorne Hydroponics, LLC
Battery Type	1 Lithium Ion battery (included)



Figure 5: The compact size of the PAR Meter unit, shown relative to a hand.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official Sun System website. Keep your proof of purchase for warranty claims.