

Sunthesis Inverter Remote Controller

Sunthesis Inverter Remote Controller User Manual

Model: Inverter Remote Controller

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Sunthesis Inverter Remote Controller. Please read this manual thoroughly before using the product to ensure proper function and safety. This remote controller is designed to provide convenient control over your compatible Sunthesis power inverter.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the product:

- Ensure the inverter is turned off and disconnected from power sources before connecting or disconnecting the remote controller.
- Do not expose the remote controller to water, moisture, or extreme temperatures.
- Do not attempt to open or modify the remote controller. Refer all servicing to qualified personnel.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Sunthesis Inverter Remote Controller allows for convenient remote operation of your inverter. It features an ON/OFF switch and an indicator for inverter fault status.



Figure 1: Sunthesis Inverter Remote Controller. This image displays the compact black and gray remote control unit with an ON/OFF toggle switch, an "INV FAULT" indicator light, and a coiled gray cable with an RJ11 connector.

Components:

- **ON/OFF Switch:** Controls the power state of the connected inverter.
- **INV FAULT Indicator:** A red LED that illuminates to indicate a fault condition in the inverter.
- **Connection Cable:** A coiled cable with an RJ11 connector for connecting to the inverter's remote port.

4. SETUP

1. **Locate the Remote Port:** Identify the remote control port on your Sunthesis power inverter. This port is typically an RJ11 (telephone-style) jack.
2. **Connect the Cable:** Ensure the inverter is powered off. Carefully insert the RJ11 connector of the remote controller's cable into the remote port on the inverter until it clicks into place.
3. **Mount the Controller:** Position the remote controller in a convenient and accessible location. The unit features mounting holes for secure installation if desired.

5. OPERATING INSTRUCTIONS

1. **Turning the Inverter ON:** Flip the ON/OFF switch on the remote controller to the "ON" position. The inverter should power on.
2. **Turning the Inverter OFF:** Flip the ON/OFF switch on the remote controller to the "OFF" position. The inverter should power off.
3. **Monitoring Inverter Status:** The "INV FAULT" indicator light will illuminate red if the connected inverter detects a fault condition (e.g., overload, over-temperature, low battery voltage). Refer to your inverter's main manual for specific fault codes and troubleshooting steps.

6. MAINTENANCE

The Sunthesis Inverter Remote Controller requires minimal maintenance.

- Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check the connection cable for any signs of damage or wear.
- Ensure the RJ11 connector is securely seated in the inverter's remote port.

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---|---|--|
| Inverter does not turn ON/OFF via remote. | Remote cable not properly connected. Inverter's main power switch is OFF. Inverter fault condition. | Check and re-secure the RJ11 cable connection. Ensure the inverter's main power switch is in the "Remote" or "ON" position (refer to inverter manual). Check the "INV FAULT" indicator. Refer to inverter manual for fault resolution. |
| "INV FAULT" indicator is lit. | Overload condition. Low battery voltage. Over-temperature. Other internal inverter fault. | Reduce the load on the inverter. Charge the battery bank. Allow the inverter to cool down. Consult your inverter's main user manual for specific fault codes and detailed troubleshooting. |

8. SPECIFICATIONS

| Feature | Detail |
|--------------------|--|
| Brand | Sunthesis |
| Model | Inverter Remote Controller |
| Compatibility | Compatible Sunthesis Power Inverters (check inverter manual for remote port compatibility) |
| Controls | ON/OFF Toggle Switch |
| Indicators | INV FAULT (Red LED) |
| Connection Type | RJ11 (Telephone-style) Cable |
| Package Dimensions | 18 x 7.8 x 6 inches |
| Item Weight | 3.52 ounces |

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your main Sunthesis power inverter or visit the official Sunthesis website. Please have your product model and purchase date available when contacting support.

For additional assistance, you may contact Sunthesis customer service through their official channels.

© 2023 Sunthesis. All rights reserved.