SPW WSSTR

SPW Hunter WSS-TR Wireless Solar Sync Sensor Transmitter Instruction Manual

Model: WSSTR

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the SPW Hunter WSS-TR Wireless Solar Sync Sensor Transmitter. This unit is designed as a replacement transmitter for an existing Hunter Wireless Solar Sync system. It works in conjunction with your existing receiver to provide advanced weather sensing capabilities for your irrigation controller.



Image 1: The SPW Hunter WSS-TR Wireless Solar Sync Sensor Transmitter. This unit is designed to replace an existing transmitter in a Hunter Wireless Solar Sync system.

The Solar Sync ET sensor calculates evapotranspiration (ET) and adjusts Hunter irrigation controllers daily based on local weather conditions. It measures sunlight and temperature to determine the correct seasonal adjustment percentage, which is then communicated to the controller. This system also integrates Rain-Clik and Freeze-Clik sensor functions, providing automatic

shutdown of your irrigation system during rain or freezing conditions.

2. Setup and Installation

2.1 Unpacking and Components

The package contains one SPW Hunter WSS-TR Wireless Solar Sync Sensor Transmitter. This unit is a replacement part and requires an existing compatible Hunter Wireless Solar Sync Receiver for operation.

2.2 Compatibility

- This transmitter is compatible only with the Hunter Wireless Solar Sync system.
- It is not compatible with the Hunter Rain-Clik system.
- Ensure your existing receiver is part of a Wireless Solar Sync setup.

2.3 Mounting the Transmitter

Proper placement of the transmitter is crucial for accurate weather data collection. The sensor should be mounted in an open area, free from obstructions that could block sunlight or rainfall. Common mounting locations include:

- On a fence post or railing.
- On a gutter or fascia board.
- On a wall or other stable structure.

Ensure the sensor is level and securely fastened. Avoid locations near heat sources, reflective surfaces, or areas prone to excessive shade.



Image 2: The Hunter WSS-TR Wireless Solar Sync Sensor Transmitter shown mounted on a fence railing. This placement allows for unobstructed exposure to sunlight and rainfall, crucial for accurate weather data collection.



Image 3: The Hunter WSS-TR Wireless Solar Sync Sensor Transmitter mounted on a residential gutter. This elevated position helps ensure the sensor is clear of ground-level obstructions and receives optimal environmental exposure.

2.4 Pairing with the Receiver

Once the transmitter is securely mounted, it needs to be paired with your existing Hunter Wireless Solar Sync Receiver. Refer to your specific Hunter controller and receiver manual for detailed pairing instructions, as procedures may vary slightly. Generally, the process involves:

1. Ensure the receiver is powered on and connected to your irrigation controller.
2. Activate the pairing mode on your receiver (often indicated by a flashing LED or a specific button press sequence).
3. The transmitter should automatically detect and pair with the receiver. Confirmation of successful pairing is typically indicated by a solid LED on the receiver or a message on the controller display.

Upon successful pairing, the system will begin collecting weather data and adjusting irrigation schedules.

3. Operation

3.1 Evapotranspiration (ET) Calculation

The WSS-TR transmitter continuously monitors local sunlight and temperature conditions. This data is used to calculate the daily evapotranspiration (ET) rate, which represents the amount of water lost from the soil and plants due to evaporation and transpiration.

3.2 Seasonal Adjustment

Based on the calculated ET, the Solar Sync system determines a seasonal adjustment percentage. This percentage is transmitted wirelessly to your Hunter irrigation controller. The controller then modifies its programmed run times by this percentage, ensuring that your landscape receives the appropriate amount of water based on current weather conditions.

3.3 Rain-Clik and Freeze-Clik Functions

The WSS-TR transmitter integrates Hunter's Rain-Clik and Freeze-Clik technologies:

- **Rain-Clik:** Automatically shuts down the irrigation system when a predetermined amount of rainfall is detected, preventing overwatering.
- **Freeze-Clik:** Suspends irrigation when temperatures drop to near-freezing levels, protecting plants and preventing ice formation on surfaces.

These functions provide immediate response to adverse weather, enhancing water conservation and system protection.

4. Maintenance

The SPW Hunter WSS-TR transmitter is designed for minimal maintenance. However, periodic checks can ensure optimal performance:

- **Cleaning:** Periodically inspect the sensor for dirt, debris, or insect nests that may obstruct the sunlight or rain sensors. Gently clean with a soft cloth and water if necessary. Avoid abrasive cleaners.
- **Mounting Security:** Ensure the mounting bracket remains secure and the sensor is level. High winds or other environmental factors can sometimes loosen mounts.
- **Battery Check:** While the Solar Sync sensor is typically powered by the controller or has a long-life battery, consult your full Solar Sync system manual for any battery replacement procedures if applicable to your specific setup.

5. Troubleshooting

- **Transmitter Not Pairing with Receiver:**
  - Verify that the receiver is powered on and correctly connected to the irrigation controller.
  - Ensure you are attempting to pair with a Hunter Wireless Solar Sync Receiver, not a Rain-Clik receiver.
  - Follow the specific pairing instructions for your Hunter controller and receiver model.
  - Check for any physical obstructions or excessive distance between the transmitter and receiver that might interfere with the wireless signal.
- **Irrigation Schedule Not Adjusting or Incorrectly Adjusting:**
  - Confirm the transmitter is securely mounted in an open area, free from shade or obstructions that could affect sunlight or temperature readings.
  - Ensure the sensor is clean and free of debris.
  - Verify that the transmitter is successfully paired and communicating with the receiver. Check the receiver's status indicator.
  - Consult your Hunter controller manual to ensure the Solar Sync feature is enabled and configured correctly.
- **System Not Shutting Off During Rain or Freeze:**
  - Check the rain and freeze sensors on the transmitter for any blockages or damage.
  - Ensure the transmitter is receiving adequate rainfall for the Rain-Clik function to activate.
  - Verify that the temperature is indeed at or below the freeze threshold for the Freeze-Clik function to activate.
  - Confirm communication between the transmitter and receiver.

6. Specifications

Brand	SPW
Model	WSSTR
Manufacturer	Hunter
Material	Metal (for mounting components)
Product Dimensions (L x W x H)	8 x 4.5 x 1 inches
Item Weight	9 ounces
UPC	611698160046

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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