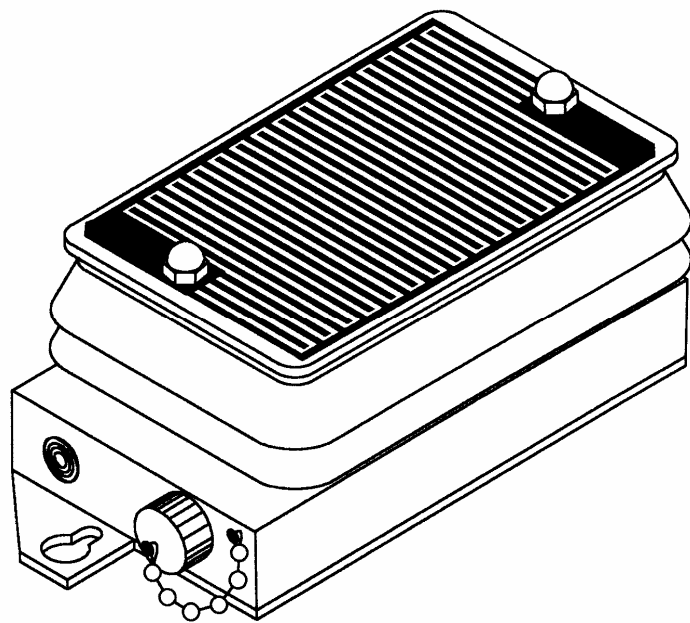


# LEAF WETNESS & TEMP LOGGER

CATALOG # 3610TWD



*Spectrum*  
*Technologies, Inc.*

THANK YOU

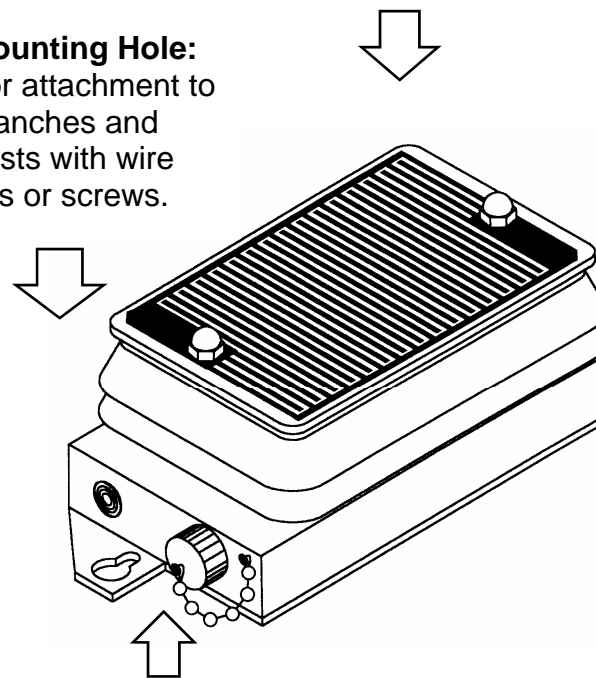
THANK YOU FOR PURCHASING A  
LEAF WETNESS AND TEMPERATURE LOGGER!



## GENERAL OVERVIEW

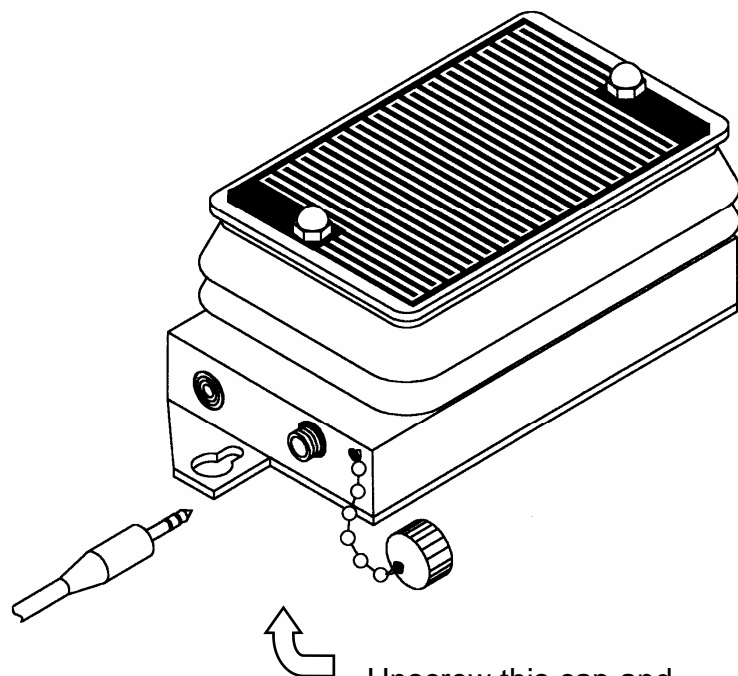
**Gold Plated Sensor Grid:** The sensor reads wetness by measuring the resistance of this grid. Accurate measurements require that this surface must be kept clean of all conductive matter (leaves, grass, dirt, and salts).

**Mounting Hole:**  
For attachment to  
branches and  
posts with wire  
ties or screws.



**Serial Port:** Care should be taken to keep this cover screwed on tight. The logger should be deployed with this end pointing down to protect the serial port.

## CONNECTING TO COMPUTER



Unscrew this cap and plug in the interface cable. Connect the 9-pin connector to the serial port of your

### Operation Indication:

The logger has a red indicator light that blinks while it is logging. The light blinks brightly at every measurement, and weakly every two seconds if the interval between measurements is longer than two seconds. In bright sunlight it might be necessary to shade the indicator light to see if it is flashing.

## PLACEMENT IN THE FIELD

### General:

Locate the logger (sensor) in a typical “micro-climate” away from the edge of a orchard, vineyard, or field.

Position the logger (sensor) in an area of the plant canopy which is appropriate for the disease being monitored. For example, to simulate the impact of rain only, the sensor would be positioned under the canopy. For full impact of both rain and dew, the sensor would be positioned closer to the top of the plant canopy. Contact your cooperative extension office for further suggestions.

Position the sensor at a 20-45 degree angle to the ground to avoid “ponding” of moisture on the sensor and pointed to the north.

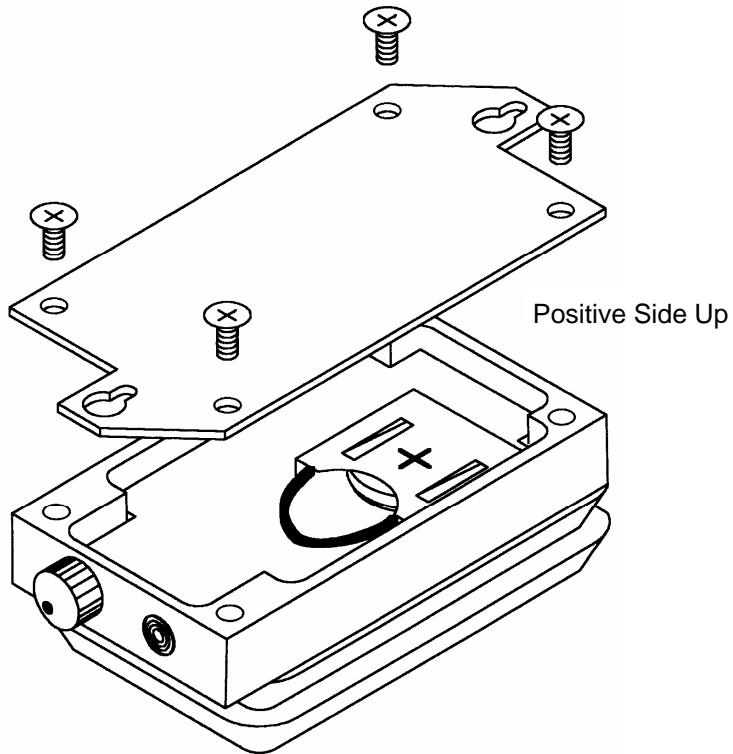
Observe the sensors frequently to make certain the sensors haven't fallen from their mounts or that a leaf is not stuck to the sensor surface.

Periodically wipe the sensor with distilled water to remove dust, pesticide residue, irrigation water salts, etc.

# BATTERY REPLACEMENT

**Battery:** CR 2032 or Equivalent (DL 2032, BR 2032)  
CR 2025 may be used but will result in a shorter battery life. Expected battery life is about 6 months. Use only 3 volt lithium batteries.

**Note:** Do not remove the battery while logger is recording data.

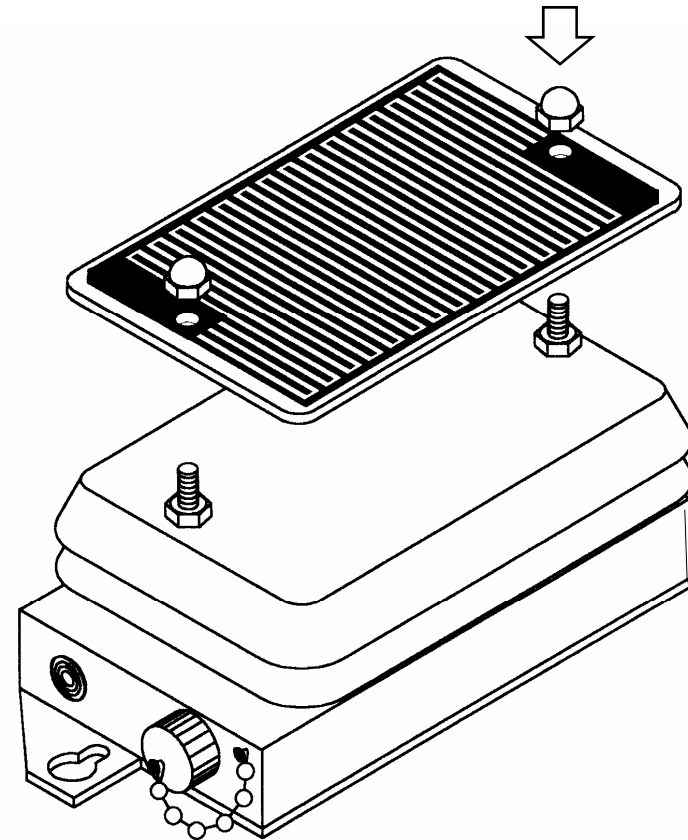


Pull firmly on the black O-ring until the battery is free from the battery holder. When inserting the new battery, place it inside the O-ring before sliding the new battery firmly into the holder.

# SENSOR REPLACEMENT

Replacement sensors can be purchased from Spectrum Technologies, Inc.

Remove the nuts which hold the sensor board. Electrical connection is made through these bolts.



## SERVICE AND SUPPORT

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Spectrum products are easy to use and reliable. In the event that you have a problem with the hardware or software, please read the following.

### Who do I contact?

**Contact the company that you bought the loggers from: Spectrum Technologies, Inc. or a Spectrum Authorized Dealer.**

Before calling, you can evaluate and often solve your problem if you try the following.

1. Read this manual and the help file in the software. It may only take a few moments to get the answer you need.
2. Write down the events that led to the problem. Have you changed anything in your computer recently? Are you doing anything differently?

### When Contacting Spectrum Technologies, Inc.

please indicate that you need Technical Support.

Be prepared to:

1. Provide details on the hardware and software configuration of your computer including: manufacturer, model number, peripherals, and versions of the operating system.
2. Completely describe the problem. The more information you provide, the faster and more accurately we will be able to respond.

## WARRANTY

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This product is warranted to be free from defects in material or workmanship for 1 year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty is void if the Spectrum products have been damaged by customer error or Negligence or if there has been an unauthorized modification.

### Returning Products to Spectrum

Before returning a failed unit, you must obtain a Returned Goods Authorization (RGA) number from Spectrum. You must ship the product(s), properly packaged against further damage, back to Spectrum (at your expense) with the RGA number marked clearly on the outside of the package. Spectrum is not responsible for any package that is returned without a valid RGA number or for the loss of the package by any shipping company.

**Spectrum Technologies, Inc.**  
**12360 S. Industrial Dr. East**  
**Plainfield IL 60585**  
**(800) 248-8873 or (815) 436-4440**  
**Fax (815) 436-4460**  
**E-Mail [info@specmeters.com](mailto:info@specmeters.com)**  
**[www.specmeters.com](http://www.specmeters.com)**