

# EXTERNAL TEMPERATURE SENSOR

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CATALOG # 3667

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*Spectrum*  
*Technologies, Inc.*

## THANK YOU

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Thank you for purchasing an external temperature sensor for use with your WatchDog Data Logger. This manual will aid you in placement and mounting of the External Temperature Sensor. Read it thoroughly to insure proper and effective use of the sensor.

The sensor includes a 6 foot cable that is connected to an external port on a Model 200, 225, 425, or 450 WatchDog Data Logger. Once the sensor is in a representative "micro-climate," insert the cable plug into the WatchDog external channel to record temperature data.

The External Temperature Sensor may be used to measure ambient air temperature, though you may bury the sensor in soil or immerse the sensor in water. When utilizing a multiple external channel WatchDog Data Logger, you may use two or three External Temperature Sensors to monitor temperature at different soil and/or water depths.

Use **SpecWare 4.0** software to program the WatchDog to log the external temperature. Refer to the **SpecWare 4.0 Instruction Manual** for detailed launch and/or readout instructions.

## INSTALLING SENSOR

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The External Temperature Sensor includes a 6 foot cable that is connected to an external port on the WatchDog Data Logger.

Install your External Temperature Sensor following the guidelines below:

- To monitor soil temperature, bury the sensor at a determined depth.
- To monitor water temperature, drop the sensor into the water to the desired depth.
- If the cable runs along the ground, use metal or plastic conduits to protect the cable from rodents.
- Attach the cable to the mounting mast below the WatchDog Logger using the wire tie supplied. This will ensure that the sensor cable does not become unplugged from a pests or strong winds.

If you have questions on sensor placement for your particular purpose and/or geological area, contact your cooperative extension agricultural agent for further suggestions on field placement.

Inspect the sensors frequently to make certain that the sensors have not been damaged and are clear of obstructions.

# **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)**