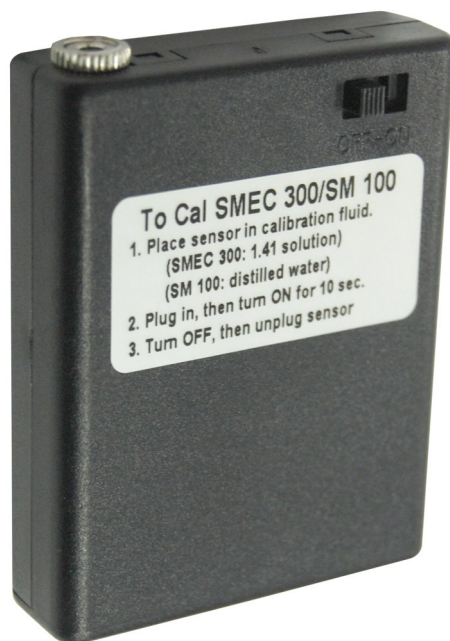


# WaterScout Calibration Device

Item # 6470CAL3V

Thank you for purchasing the WaterScout Calibration Device. This sheet describes the features and operation of the meter.



## Sensor Preparation for the SMEC 300

Before starting the calibration procedure, the following preliminary steps are necessary ensure the sensor is properly calibrated.

1. Because residual oils on the EC sensor pads, including oil from your fingers, will reduce the accuracy of the sensor, clean the sensor with rubbing alcohol. After cleaning the sensor, do not touch the pads with your fingers.
2. Allow the calibration solution to come to room temperature. You must calibrate with a solution with an EC of 1.41 mS/cm. It is important for the sensor and solution to be at the same temperature.

**Spectrum<sup>®</sup>**  
**Technologies, Inc.**

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3600 Thayer Court  
Aurora IL 60504  
(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)

### **Calibration Procedure for the SMEC 300**

1. Confirm that the switch is in the OFF position. **Caution: The sensor can be damaged if plugged in while the calibration device is activated.**
2. Pour clean calibration solution into the cup provided with this kit.
3. Plug the sensor into the socket of the calibration device.
4. Immerse the sensor in the calibrating solution up to second mark on the molding. This ensures the sensor's internal thermistor is below the liquid level. Take care that the EC sensor pads are not touching the side of the container.
5. Move the switch to the ON position for at least 10 seconds and then turn it to OFF.
6. Disconnect the sensor plug.
7. To confirm the calibration, connect the sensor to your WatchDog weather station and select a channel configured to read an SMEC 300 sensor. Check that the sensor is reading  $1.41 \pm 0.05$  mS/cm.
7. Rinse and dry the sensor. Take care not to touch the EC sensor pads with your fingers.
8. Store the sensor in a plastic bag until you are ready to install it in the field.

### **Calibration Procedure for the SM 100**

1. Confirm that the switch is in the OFF position. **Caution: The sensor can be damaged if plugged in while the calibration device is activated.**
2. Pour clean distilled water into the cup provided with this kit.
3. Plug the sensor into the socket of the calibration device.
4. Completely immerse the sensor in the distilled water. This ensures the sensor's internal thermistor is below the liquid level.
5. Move the switch to the ON position for at least 10 seconds and then turn it to OFF.
6. Disconnect the sensor plug.
7. To confirm the calibration, connect the sensor to your WatchDog weather station and select a channel configured to read an SM 100 sensor. Check that the sensor is reading  $53.2 \pm 1\%$  while submerged and  $0.00\% + 0.5\%$  in air.
8. Store the sensor in a plastic bag until you are ready to install it in the field.

### **Changing the battery**

The WaterScout calibration device comes with 3 AAA batteries. To access the battery compartment, remove the small screw on the back of the housing and the knurled nut around the sensor socket and slide the door open .