

SERVICE BULLETIN NO. 20080818

August 18, 2008

SUBJECT **Incorrect Light Sensor Value**

PRODUCT FAMILY **WatchDog Mini Station, WeatherTracker, Quantum Light Sensor**

AFFECTED UNITS WatchDog 900ET Weather Stations (Item 3350WD, Note that Item 3350WD2, the WatchDog 2900ET, is not affected) with Silicon Pyranometer (solar radiation) sensors in the range noted below.

WatchDog 2475 Mini Stations (Item 3686WD), serial numbers before 200.

WatchDog WeatherTracker 305 Greenhouse Growth Trackers (Item 3501, Note that Item 3501PAR is NOT affected), serial numbers before 1666.

Silicon Pyranometer Sensors (Item 3670i) used with WatchDog loggers and weather stations, serial numbers* before 1520.

Quantum Light Sensors (Item 3668i) used with WatchDog loggers and weather stations, serial numbers* before 1302.

* Sensor serial numbers are on a label attached to the bottom of the sensor. The leveling screws must be removed for access to the label.

DETAILS

Silicon Pyranometer Sensors and Quantum Light Sensors were calibrated using a defective standard prior to April 2006. As a result, the light values provided by these sensors are 5% to 18% lower than the actual light level. These sensors were sold individually for use with the WatchDog line, and were used as components for several products as noted above.

CIRCUMVENTION

Existing data from the incorrectly calibrated sensors must be manually adjusted.

WatchDog WeatherTracker 305 Greenhouse Growth Trackers:
Multiply the DLI values by 1.05.

Silicon Pyranometer Sensors, WatchDog 900ET Weather Stations:
Multiply the sensor values by 1.16.

Quantum Light Sensors, WatchDog 2475 Mini Stations:
Multiply the sensor values (including computed DLI values) by 1.18.

Beginning ten months later, in February 2007, the corrected sensors were replaced by versions with improved cosine correction. There is no adjustment value available to convert pre-2/2007 sensor values to later values, as the nature of cosine correction means that the sensor values differ non-linearly based on time of day and latitude.

RESOLUTION

Spectrum Technologies will repair or replace any sensors included in this service bulletin. This will require you to send your WatchDog, WeatherTracker, or light sensor to Spectrum. Contact Spectrum Technologies by phone or email to arrange for the return.

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