

Harvest Electronics

System Maintenance Guidelines

General

Base Station/Remotes

Clean solar panels with a damp cloth every 6 months or as needed. Ensure solar panels are able to receive a minimum of 4 hours of sunlight on a cloudless sunny day. Especially for remotes, regularly check for rust or other damage on case or aerial and ensure that vegetation or other objects are not obstructing the solar panels or aerials.

Rain Gauge

These should be cleared of debris at least every 6 months and keep vegetation or other obstructing objects at a reasonable distance. The Base Station needs to be level so that the rain gauge operates accurately. Use the bubble level inside the rain gauge base to aid in leveling. Clean cobwebs and insects from inside the bucket, clean tipping bucket and check that it tips freely with very little force - i.e. you should be able to blow on it to make it tip.

Wind Sensor

Visual inspection every 6 months for anything that may be hindering operation (e.g. cobwebs). Check for smooth operation - you should be able to move the vane and cups by blowing on them. Wind sensors should be replaced after 3 years if optimum performance is required.

Temperature Sensor

Check to make sure nothing is obstructing airflow in/out of radiation shield. A simple way to check temperature sensors on a site with multiple temperature sensors is to look at the readings on a day with a gentle breeze when all sensors should be reading within 0.5°C of each other, or more typically, within 0.25°C.

Temperature/Humidity & Temperature/Humidity/Pressure Sensors

Check to make sure nothing is obstructing airflow through the radiation shield. Replacement of the sensor may be required after 3-5 years.

Solar Radiation Sensor

Carefully clean the face of the sensor with alcohol or warm water with a small amount of detergent water every 3 months or as needed.

Leaf Wetness Sensor

Both sides of sensor must be cleaned with warm water with a small amount of detergent every 6 months or as needed.

Soil Moisture Sensor and/or Temperature Sensor

No maintenance required if kept in soil.

Insect Repellent

Recommended to be replaced every 2 years. The lid of the insect repellent needs to be closed. There is a small hole in the lid which will cause the eucalyptus oil to release slowly. If the lid is opened the eucalyptus oil will evaporate rapidly.

Frost Alarms

Frost alarms should be checked before Spring frosts. Call Harvest Tech Support (0800 HARVEST or +64 6 370 1991) to arrange a frost alarm test. Harvest will raise the threshold to a temperature that will trigger the alarm.

Other Alarms

Check as necessary or call Harvest Tech Support to discuss.

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October 2015