



RECOMMENDED MAINTENANCE SCHEDULE

The maintenance for this system should consist of periodic system reviews. These should be conducted monthly and semi-annually, although after the system is first installed, you may wish to do some of the checks more frequently until you are familiar with the system's operation.

Monthly site checks are reviews of the system to make sure that it is reporting reasonable data. Should this check indicate that there is a problem with the system, corrective maintenance should be performed.

Periodic maintenance is work to be performed every six months or more frequently should your operational experience indicate the need. This should keep your system operational and prevent non-scheduled outages.

Monthly Site Checks

100075	Wind Speed Sensor	Check to see that the cups are turning.
100076/102139	Wind Direction Sensor	Check to see that the data appear reasonable.
100093	Temperature Sensor	Compare data to psychrometer.
102273/101943	Relative Humidity Sensor	Compare data to psychrometer. Check sensor filter for dirt/dust. Clean or replace as necessary.
100325	Motor-Aspirated Shield	Clean front inlet and rear housing.
102318/102319	Pyranometer	The outer dome must be cleaned and inspected. Check it to ensure that the instrument is level and that there is no condensation inside the dome.
100097/100508	Precipitation Gauge	Check funnel and screen, and remove any debris.

Semi-Annual Periodic Maintenance

100075	Wind Speed Sensor	Replace sensor on tower with spare. Use wind speed test fixture to check speed, comparing both the digital and analog output. Replace bearings on sensor removed from tower.
100076/102139	Wind Direction Sensor	Replace sensor on tower with spare. Replace bearings on sensor removed from tower. Use linearity fixture when re-assembling the sensor.
100093	Temperature Sensor	Remove sensor from aspirator and wipe any dust or dirt from sensor with a clean cloth. Clean aspirator inlet (see above). Replace in aspirator when done.
102273/101943	Relative Humidity Sensor	Remove sensor from aspirator. Look at sensor and filter to be sure they are clean. Compare data to psychrometer. Recalibrate if necessary.
100325-5	Motor-Aspirated Shield	Clean aspirator of any dirt or dust, inside and out. Feel fan exhaust to make sure fan is running.
102318/102319	Pyranometer	Replace the desiccant twice a year in humid areas, or as required in other locations.
100097/100508	Precipitation Gauge	Remove funnel. Clean funnel, bucket assembly, drain tubes, drain line, and inner funnel. Oil pivot bearing with a drop of light oil. Check the calibration per the manual's calibration procedure.