

Appendix C

Power Failure/Recovery

The Evolution DX2 controller contains non-volatile Random Access Memory (RAM), which allows all user watering schedules to be retained indefinitely in the event of power failure. This data is retained without the use of replaceable batteries. In addition, the controller has an internal clock which keeps track of calendar time without the need for AC power. Also, when AC power is lost or restored, the time and date of the occurrence is logged. No special setup is required of the user to take advantage of the power monitoring and recovery features.

Problem Reporting

Each power failure and recovery is reported on the warning/alarm list.

If a problem occurs, the base menu display reads: "WARNING=POWER FAILURE" or POWER ON, followed by the time and date of the occurrence.

See Chapter 10 in the viewing and clearing of the warning/alarm list.

Canceling and Continuing Watering Programs

When the power is lost and/or restored, the controller can be in one of several possible states. Continuing with the program depends on the duration of the scheduled watering time and the length of the power outage.

Warning:



When a program is running, and the power is lost and restored, the controller will enter a “catch-up” cycle to re-establish which program and stations to turn on, if any.

- **If no program is running and no stations are on, and the power is restored prior to the program start time:**

The program will start at its scheduled time.

- **If no program is running and power is out at the normal start time:**

The program will not start until the next scheduled program start.

- **If a program is running and a station is on when the power outage occurs, and the elapsed time of the outage is greater than the scheduled run time of the program:**

The problem list will indicate which station(s) were on at the time of the outage. Run time will not resume after the outage, and the program will not start until it's next scheduled start time.

- **If a program is running and a station is on when the power outage occurs, and power is restored prior to completion of the scheduled run time:**

The program will continue its scheduled cycle, resuming where it would have been if the outage had not occurred.

Example:

If a program was scheduled for 1:00PM to run stations 1 and 2 for 10 minutes each, and an outage occurred at 1:05 and restored at 1:12, station 2 will come on for the 8 remaining minutes of the schedule.

- **If the duration of the power outage is more than 24 hours:**

No attempt is made to restart a watering program. This only concerns a program that extends longer than 24 hours. All programs will start at their next scheduled times.

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