



## **Operational Description**

### **SLW15:**

The SLW15 is a 3 Volt battery powered weather station transceiver for use in measuring temperature and rain events. This data is transmitted wirelessly to the SLHUBRF and is used to calculate watering times for the Weathermatic Smart Line irrigation controls.

The SLW15 has a rain switch input that is checked every 4 seconds for activation. If activation is detected, the SLW15 will make a transmission to the SLHUBRF to hold off watering. This transmission is repeated every ten minutes until the rain event is finished.

The SLW15 also monitors temperature and will send data every ten minutes if there is a freezing condition. Otherwise, when there is no rain or freeze condition, the data is sent once per day. The temperature data is used to calculate how much to water the next day.

Each transmission is a 40 byte message that lasts approximately 1.5 mSec. After transmitting the SLW15 returns to a low power standby state. The SLW15 uses an impedance matched PCB trace as the antenna.