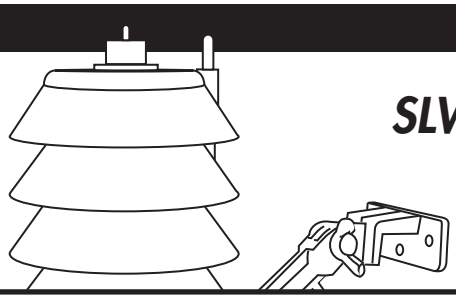


# *SLW15 Wireless Weather Station Installation & Operation Instructions*

SMARTLINE®

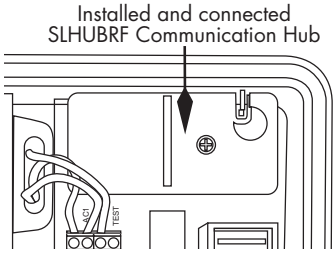
**The SLW15 is a wireless weather station operating on a bi-directional frequency. Maximum range is 600 feet (182m) Line of Sight (LOS). The SLW15 is operable with all SmartLine® firmware versions except 1.05. If you are not sure of the firmware version in your controller, turn the dial to Advanced Functions, press the Adjust Value down arrow button until you see the ABOUT screen and then press Next to view the firmware version. The SLW15 and SLHUBRF are "pre-paired" or synched at the factory for your convenience.**

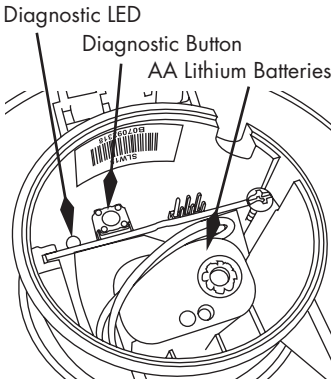
## SLW15 QUICK START INSTRUCTIONS

Required Hardware:

- SmartLine® irrigation controller version 1.08 or above
- SLHUBRF wireless communication hub
- SLW15 Wireless Weather Station

1. Install the SLHUBRF and secure with the provided screw.
2. Mount the SLW15 Weather Station. Choose a location that is open to rainfall with good air circulation and avoid heat sources.
3. Open battery compartment on the bottom of the SLW15 weather station, press the diagnostic button and watch the LED light. All blinks should be GREEN. If all blinks are GREEN proceed to step 4. If any blinks are RED, then use the Complete Installation and Operation Instructions.
4. Go to the SmartLine® controller and press the Mode button to place the controller in the Auto Adjust mode. If you have a GREEN mode LED and a blinking antenna icon in the display, the installation is successful. If you see a message in the display that says "I need latitude set," or "I need weather station" re-check SmartLine® required programming data (see controller manual) and/or repeat installation of the SLW15 using the Complete Installation and Operation Instructions.




## SLW15 COMPLETE INSTALLATION AND OPERATION INSTRUCTIONS

### 1. Install the SLHUBRF

The SLHUBRF is the wireless transceiver that communicates with the SLW15. The SLHUBRF is supplied with your SLW15. To install in your SmartLine® controller, open the operating panel on the SL1600 or SL4800. On the SL800, remove and discard the hub cover panel from the back of the SL800 housing.

Insert the SLHUBRF into the mating pin connector holes. Be careful not to bend the connecting pins. Secure the SLHUBRF to the housing with the supplied screw. The RF antenna will hang down inside the SL1600 or SL4800 housing. On the SL800, allow the RF antenna to hang underneath the controller.

Make sure AC power is supplied to the SmartLine® controller and then proceed to Step No. 2.

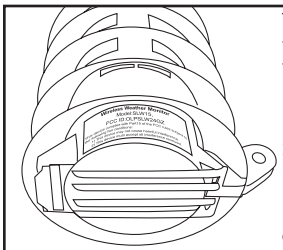
### 2. Mounting the SLW15

Decide on a good mounting location for your SLW15 wireless weather station. The mounting location should be one that is not affected by a heat source such as an air conditioner, hot roof, hot asphalt, etc. Mount in an area with unobstructed airflow. Mounting is acceptable in both direct sunlight and shade. However, shade is preferable to direct sunlight. Additionally, the location must have open access to rainfall (cannot be covered by any overhead obstruction such as trees, roofs, etc.). Mount the SLW15 as close as possible to the controller. Obstacles such as earth, hills, walls or other structures will reduce the maximum operating range of the SLW15. Use the diagnostic LED to verify communication and to check operating range at a specific location. Extreme conditions may prevent wireless communication; in this circumstance, use the SLW10 or SLW20 wired weather station.

### 3. Conduct Communication Range Test

- Open the battery compartment door at the bottom of the SLW15 so that you can view the diagnostic LED. Press the diagnostic button inside the battery compartment while you watch the LED. You will see 4 blinks. All blinks should be Green. The 4th (final blink) indicates the strength of the RF communication. If the 4th blink is Red, you do not have a satisfactory RF communication. Move the SLW15 to a different mounting location and repeat the diagnostic procedure (sometimes it might be possible to just rotate the SLW15 to acquire a Green signal).

(Continued on back.)

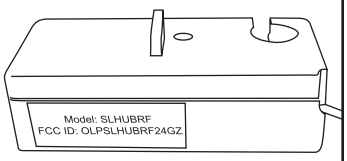


Model: SLW15
FCC ID: OLPSLW24GZ

These devices comply with Part 15 of the FCC rules subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept all interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.




Model: SLHUBRF
FCC ID: OLPSLHUBRF24GZ

Weathermatic®

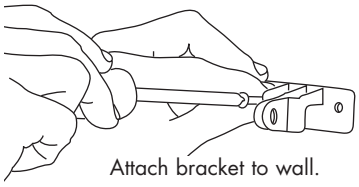
www. SMARTLINE .com

- Note: The first diagnostic blink indicates the strength of the 2 AA 1.5V lithium batteries in the SLW15. A Red signal would indicate a need to replace the batteries. Capable life for the lithium batteries is 10 years. If the 2nd and 3rd blinks are Red, replacement of the weather station is required.

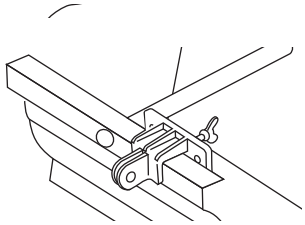
  *Note: A separate SLW15 weather station is required for each SmartLine® controller that you are installing.*

**4. Mount the SLW15**

Attach mounting bracket to a smooth surface using the two mounting screws (supplied) or attach to gutter using the wing nut provided. You may choose to remove the mounting bracket from the bracket arm for easier installation. Make sure the SLW15 is fixed in a vertical position. Tighten all wing nuts to make sure the unit is held vertical.



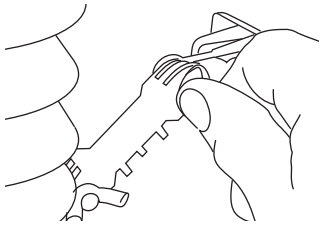
Attach bracket to wall.



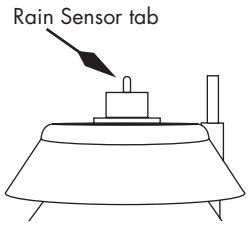
Attach bracket to gutter.

**5. Activate Auto Adjust Mode**

After the SLW15 mounting is complete, press the rain sensor tab for 10 seconds and go to the SmartLine® controller. If you have RF communication, the antenna icon on the SmartLine® display should be blinking. Note: The blinking will continue for 5 minutes after any communication from the SLW15. After 5 minutes, the antenna icon will remain static until the next communication. Press the Mode button and place the SmartLine® into the Auto Adjust position. If the installation is successful, you will have a Green light at Auto Adjust. If you see a message that "weather data is needed" re-check the installation and/or the required data input into the controller. See your SmartLine® owner's manual for data required.



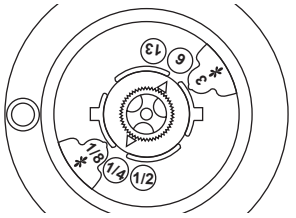
Attach sensor in vertical position.




Note: The static antenna icon will remain in place for 5 days after loss of communication with the SLW15. During that time, weather data from the last 5 days of communication will be used. After 5 days of no communication, the controller will revert to the Standard mode and will display a Fault message in the SmartLine® controller display.



**Rain/Freeze Sensing Functions**




Push and rotate to set the Rain Sense.

The SLW15 wireless weather station provides rain and freeze sensing functions to prevent watering during periods of rain and freezing weather. The rain override will pause watering after a minimum of 1/8th inch of rainfall is received, based on the 1/8th inch factory rain sensor setting. Settings can be changed incrementally up to 1". The SLW15 wireless weather station freeze sensing function will prevent watering when the outside temperature drops below 37 degrees Fahrenheit (1.5 degrees Celsius) and allow watering to resume when the temperature increases above 37 degrees F (1.5 degrees Celsius). The Sensor LED will display RED during rain or freeze periods. Additionally, after a rain event, the SmartLine® controller will continue to pause watering for 48 hours after the rain sensor has disengaged in order to prevent over watering. During the 48-hour extended rain delay, the sensor LED is ORANGE. In the event you choose to end the 48-hour extended rain delay, press the Sensor button twice and the sensor will return to a GREEN color and permit watering. If the firmware version in your SmartLine® controller has an SLW DLY function, you can adjust the factory default setting of 48 hours delay to a period of 0–99 hours.

**Troubleshooting and Maintenance**

Your SLW15 and the SLHUBRF ship as a "married" pair. They have a factory installed security code that will enable communication only between those two units. If you ever replace your SmartLine® controller, the SLHUBRF or SLW15 weather monitor, you should reactivate the weather station using step 5 above to assure communication.

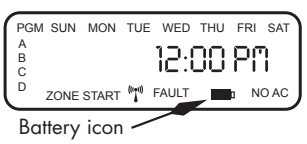
The SLW15 wireless weather station is designed for years of maintenance free operation. You will need to change the two AA lithium batteries after approximately 10 years of operation. See instructions under Changing Lithium Batteries.

**Changing Lithium Batteries**

To change the SLW15 wireless weather station batteries:

- Open the access door of the SLW15 wireless weather station.
- Replace the existing batteries with two (2) new AA 1.5V lithium batteries.
- Reactivate the SLW15 wireless weather station. See Step 5, Activate Auto Adjust Mode, under Complete Installation and Operation Instructions.
- Return to the controller and push the MODE button to place the controller back in the Auto Adjust position. If the SLW15 wireless weather station and SmartLine® controller are in communication, the Auto Adjust GREEN LED will light and the antenna icon will appear in the display.

Verify the life of the batteries at any time by turning the dial on the SmartLine® controller to any of the Auto Adjust dial positions while the controller is in the Auto Adjust mode. Now, the battery icon in the LCD display shows the strength of the batteries in the SLW15 wireless weather station (rather than the SmartLine® controller battery strength) at one of three levels — high, medium, and low.




Battery icon