SMARTLINE®
SLW10 ON-SITE WEATHER STATION

Consider 5 Reasons why the SLW10 is the **Smart Solution!**

1 SMART WATERING SCHEDULES

SLW10 works with any Weathermatic SmartLine controller to save 20 – 50% on annual water usage by automatically adjusting watering times for each zone 365 days a year using on-site, real time weather data

2 EASY MOUNT

SLW10 is a lightweight weather station that can be quickly and easily mounted to a gutter or facing with the convenient thumbscrew mounting arm

3 SOLAR SHIELD PROTECTION

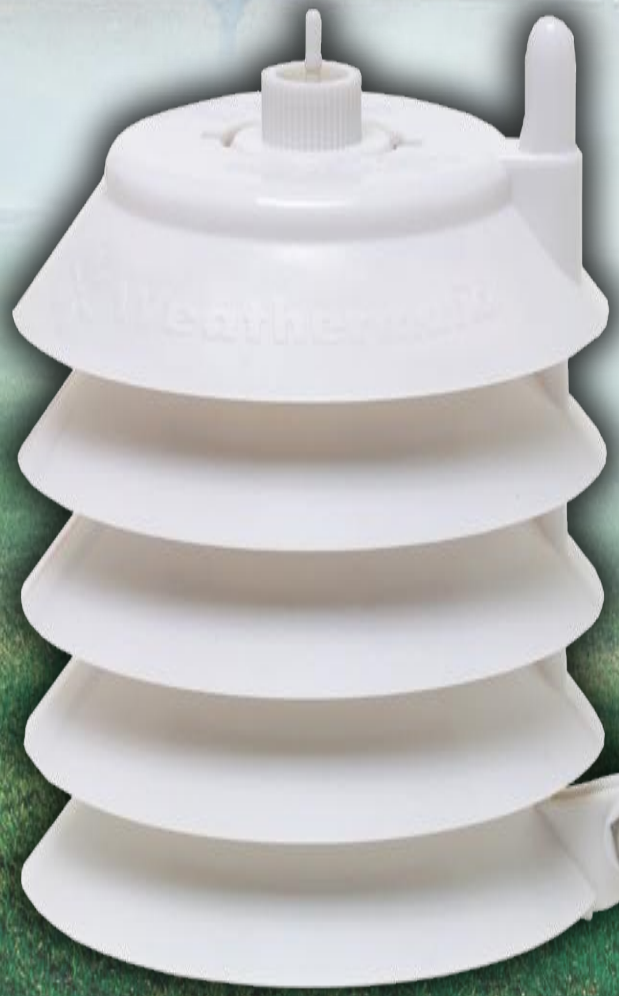
Hi-tech, stylized panels protect the temperature sensor allowing flexible installation of SLW10 in sunlight or shade

4 RAIN SENSING

No need to buy a separate rain sensing device. SLW10 shuts down system when set amount of rainfall occurs (⅛ – 1") by utilizing hygroscopic disks. Provides an extended rain delay after the disks dry out so you save water by not watering too quickly after a rain event.

5 FREEZE SENSING

No need to buy a separate freeze shutoff device. SLW10 shuts down system when temperature falls to 37°F so you never create dangerous icy conditions



SMARTLINE®

SMARTLINE® SLW SERIES ON-SITE WEATHER STATIONS

SLW15 PATENT PENDING

MODEL DESCRIPTIONS

SLW10	On-Site Weather Station
SLW15*	Wireless On-Site Weather Station, operates on bi-directional, spread spectrum 2.4 GHz frequency *Coming in 2007
SLW20	Commercial On-Site Weather Station

U.S. PATENT 6,314,340

FEATURES

- Microprocessor records and processes weather data for use in establishing Auto Adjust run times on any SmartLine® controller
- Rain shut-off settable from ⅛ – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- Rain events decrement current deficits in the SmartLine® controller
- Freeze shut-off activated at 37°F (3.0°C)
- Protective white solar shields allow normal air flow while protecting sensor from direct sunlight for accurate temperature readings and eliminating the need for regular cleaning and maintenance of the weather station
- Unit can be mounted in sunlight or shade and in close proximity to the roofline
- Maximum run distance for shielded cable wired units is 3000' (914m)
- Maximum wireless distance from controller to weather station is 600' (182m). SLHUB-RF wireless hub included with SLW15. SmartLine® controller firmware version 1.08 or later required.
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® controller

- **SLW10 / SLW15:** 5" (12.7cm) adjustable arm plastic bracket for gutter thumb-screw or wall mount; **SLW20:** Heavy-duty coated steel mounting bracket
- **SLW15:** Operates on a bi-directional, spread spectrum 2.4 GHz frequency for superior range and reliability

OPTIONS

SLC100	100' shielded cable extension kit with waterproof connector
SLC1000	1000' shielded cable with 10 waterproof connectors

ELECTRICAL SPECIFICATIONS

- 9V alkaline battery (2 AA alkalines in SLW15)

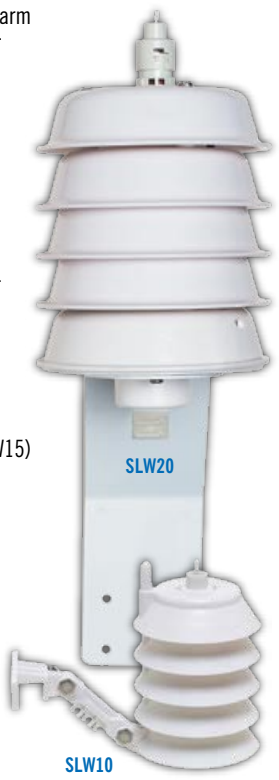
DIMENSIONS

SLW10 / SLW15:

5 ¾" H x 3 ¾" D (14.6cm x 9.5cm)
5" (12.7cm) angled mounting bracket

SLW20:

9 ½" H x 6" D (24cm x 15.3cm)
17" (43cm) angled mounting bracket



By adding an SLW Series On-Site Weather Station, a SmartLine® controller enters a class of its own. It has been said, "You buy the product only once, but you buy the water every month." This alone is a great reason to invest in SmartLine. With no service provider dependence, no recurring maintenance, and no user fees, SmartLine pays monthly dividends on your one-time investment. SmartLine controllers and SLW Series On-Site Weather Stations deliver an excellent ROI (Return On Investment) to system owners by incorporating the fundamental elements of water management through a patented water saving process (U.S. Patent No. 6,314,340) best defined as ROI:

R EAL TIME

O N-SITE

I NPUTS BY ZONE

Real Time. SmartLine calculates evapotranspiration (ET) in real time based on actual weather readings monitored 24 hours a day. It has been said: "If you don't like the weather, just wait a day because it will change." This reality is ignored in satellite-dependent control systems with weather data transmission delays. SmartLine controllers are constantly in real time communication with the SLW Series On-Site Weather Station for immediate notification of a rain event and up-to-the-second temperature updates including freezing conditions.

On-Site. On-site is on target. No one would want their thermostat located in their neighbor's house – much less across town. Likewise, the weather can vary significantly in any community, especially considering the vast array of microclimates in many areas. That's why SmartLine SLW Series On-Site Weather Stations are located on the property being irrigated by a SmartLine controller. Another benefit to on-site control is being on-time. SmartLine controllers operate on the days and times input by the user. User-set watering days and times are always honored to combine weather based watering and compliance with the law.

Inputs by Zone. Conventional irrigation controllers accept a time based setting for each zone. While in some cases the traditional 20 or 30 minutes per zone may have some correlation with the watering needs of a property's diverse plant life, this input can often result in over or under watering and be unhealthy for the landscape. Even more concerning, the time based input is static, so it cannot change with the varying needs of the plant life that are driven by changes in weather and seasonality. SmartLine controllers equipped with the SLW Series On-Site Weather Station can operate in Auto Adjust mode, which serves to replace time based watering schedules with weather based watering schedules. The weather based watering schedules are calculated for each zone using SmartLine's simple Audit Based Control (ABC) inputs combined with input from the SLW Series On-Site Weather Station. Audit Based Control incorporates the following key inputs by zone to calculate zone run times:

Sprinkler Type – User inputs the type of sprinkler (SPRAY, ROTOR, DRIP, BUBBLER) or enters the precipitation rate of the zone (.2 – 3.0" per hour).
Plant Type – User inputs the type of plant (WARM TURF, COOL TURF, SHRUBS, ANNUALS, TREES, NATIVE) or enters a crop factor for the zone (10 – 300%).
Soil Type – User inputs the soil type (CLAY, SAND, LOAM) and slope (0 – 25°) for the purpose of automatically establishing run/soak period to virtually eliminate runoff.
More/Less – User inputs a fine tune adjust for the zone (-50% to +25%) to accommodate unique zone elements like shade, wind, and sprinkler inefficiencies.