# SmartLine®

## The Smart Irrigation Controller

**Weathermatic®**
Water Conserving Innovation

**With over 360,000 SmartLine Controllers saving vast amounts of water around the world, your next project will be added to the growing list.**

**The SmartLine feature set exceeds that of most high-end controllers, yet was engineered to make ET-Based Water Management affordable for any sized project.**

## 1 TWO CONTROLLERS IN ONE

The "Basic" mode programs exactly like the conventional controllers used by most manufacturers. There's no need to learn a new method. The "Smart" mode is where the power lies. Combined with our SLW Series Weather Stations, SmartLine becomes an ET-Based water-saving controller that automatically adjusts watering times 365 days a year.

## 2 SMART MODE

ET Watering adjusts the duration, frequency, and soak time by several factors. Weather Data combined with geographical location, sprinkler type, plant type, soil type, and a fine tuning option, enables your SmartLine controller to make precise watering decisions.

## 3 ACCESS YOUR SMARTLINE CONTROLLERS FROM VIRTUALLY ANYWHERE

The days of irrigation controllers being programmed once, and left alone for months, is over. Adding the SmartLink Network gives you access to your SmartLine controllers via your Computer, Tablet, or Smartphone. Irrigation Management made simple, affordable, and packed with features.

## 4 BACKLIT LCD / REAL TIME CLOCK / CALENDAR & NON-VOLATILE PROGRAM MEMORY

No flashlight required in dark basements and garages. No battery required! On board memory chip retains time, date and program information even during a power outage

## 5 OMIT TIMES/DAYS/DATES SEASONAL % ADJUST BY MONTH BY PROGRAM

Automatically comply with local water restrictions; eliminate irrigated water lost to evaporation in the heat of the day; stop irrigation on lawn maintenance days; never water on the date of an annual event (ex: July 4th). A monthly watering budget % can be set up by program to automatically adjust zone run times for seasonal changes.

## 6-10 ADVANCED MENU

The Advanced Menu contains 17 tools, ranging from diagnostics, troubleshooting, and advanced water management tools. Below only scratches the surface.

## 6 BUILT-IN VALVE LOCATOR

Locate hidden valves by simply listening for the audible chatter of the solenoid created by a unique electrical frequency. (U.S. Pat #7406363)

## 7 ON-BOARD MULTI-METER

Displays the electrical current reading of each zone for quick troubleshooting and a proactive approach to maintenance.

## 8 MASTER VALVE/PUMP SETTINGS

Achieve hydraulic control with settings for zone-to-zone delays, master valve timing, and master valve On/Off by zone

## 9 BACKTRACK STORED PROGRAM GROW-IN PROGRAM FEATURE

Allows you to easily store a default program and retrieve the saved program in the event someone improperly reprograms the controller. Allows you to set up a temporary program to grow in new plant material then automatically switch to a day to day program when you decide.

## 10 RUNOFF ELIMINATOR

Eliminate runoff by setting the maximum allowable run time and minimum soak time by program

# THE SMARTLINE® SERIES

## STEP 1

Match the right SmartLine® Controller for your next project.

SL4800 - 12 to 48 ZONES
SL9600TW - 96 ZONES 2-WIRE

SL1600 - 4 TO 16 ZONES
SL1620 - 20 ZONE
SL1624 - 24 ZONE

SL800 - 4 TO 8 ZONE

## STEP 2

Select the zone modules needed to achieve your project's requirements.

SLM12 MODULE
12 ZONE
Use with: SL4800
base model = 12 zones

SLM4 MODULE
4 ZONE
Use with: SL1600
base model = 4 zones

SLM2 MODULE
2 ZONE
Use with: SL800
base model = 4 zones

Alternatively, convert the SL1600 Controller into a 2-Wire Decoder System up to 48 zones with SmartWire®
Note: SL9600TW does not require a SmartWire module addition.

SLM48DM - Decoder Module

SLDEC1 - 1 VALVE DECODER
SLDEC2 - 2 VALVE DECODER
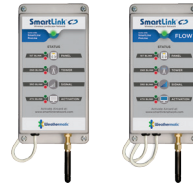SLDEC4 - 4 VALVE DECODER
SLGDT - Lightning Arrestor

## STEP 3

Enhance your SmartLine® Controller with irrigation management tools.

SLW5 Wireless Weather Station

Turns the SmartLine® Controller into a EPA Water Sense Certified system.

SLW1 - Wired Weather Station Available

SLFSI-S / SLFSI-T / SLFSI-B
Flow Sensor

Adds complete flow sensing capabilities to the SmartLine® Controller when connected to the SmartLink™ Network.

SmartLink™ AirCard
Standard / with Flow

Connects your SL1600/4800 to the SmartLink™ Network.

Flow sensing is only available via the SmartLink AirCard.

The SmartLink™ Network

Access, and manage your SmartLine® Controller with the truly affordable web-based SmartLink™ Network.
**learn more: smartlinknetwork.com**

## ENCLOSURES

Protect your SmartLine® Controller with these options.

Stainless Steel Enclosure with Pedestal

SLPED-ENC-SS
for SL1600, SL4800 / SL9600TW

Powder-coated Metal Enclosure with Pedestal

SLPED-ENC-M
for SL1600, SL4800 / SL9600TW

High-Grade Plastic Pedestal

SL4800PE-PED
for SL4800 (SL4800 included)

Stainless Steel Wall Mount Cabinet
SLWM-SS for SL1600, SL4800 / SL9600TW

Powder-coated Metal Wall Mount Cabinet
SLWM-M for SL1600, SL4800 / SL9600TW

Stainless Steel Pedestal
SLPED for SL1600, SL4800 / SL9600TW

## SOLAR POWERED

Convert the SL4800 into a powerful Solar Powered controller and still keep using your 24vac control valves.

SLSOLAR48 - 48 Zone Solar System

## MODELS

**SL800**
4-Zone base model: Expandable to 8 zones
2-Zone hot-swappable modules (SLM2)

**SL1600**
4-Zone base model: Expandable to 16 zones
4-Zone hot-swappable modules (SLM4)

**SL1620**
20-Zone fixed station count

**SL1624**
24-Zone fixed station count

**SL4800**
12-Zone base model: Expandable to 48 zones
12-Zone hot-swappable modules (SLM12)

**SL9600TW**
96-Zone 2-Wire model

## BASIC FEATURES

4 programs: A, B, C; program D can operate concurrently
8 start times: Per program
Indoor/Outdoor Rated
Zone run times settable from 1 min. to 9 hrs. 55 min.
Rain/Freeze sensing on/off button with Tri-Color LED indicator
Rain delay of 1 – 7 days
SLW1/SLW5 Weather Stations extended rain delay programmable from 0 – 99 hours
Seasonal % adjust by program, by month
Omit time of day window, day(s) of week, and up to 7 calendar dates
Programmable zone-to-zone delay 1 min. – 3 hrs.
Watering day selections: custom days of the week, odd/even, or interval days
Run/Soak cycles by program
Large backlit LCD display
Non-volatile memory – with no battery required
Internal 120VAC/230VAC transformer with pre-installed 6' line cord
2 Watering modes: Basic Mode and Smart Mode
Basic Mode: User controlled conventional programming
Smart Mode: Daily automatic station runtime adjustments

## SMART WATERING FEATURES

ZIP Code input or Latitude input
Sprinkler type input
Plant type input
Soil type input
More/Less ET Tuning
Watering run times adjusted automatically
Review menu displays accumulated ET deficits by zone
Displays maximum run time and minimum soak time
Displays temperature readings (daily high/low) for previous 5 days
Accumulates total run times by zone from the last reset date
Clear deficits for all zones
Extended rain delay programmable from 0 – 99 hours

## MANUAL OPERATION

Manual test runs each zone with zone run times from 10 sec. – 10 min.
Manual zone operation of a single zone from 1 min. to 9 hrs. 55 min.
Push button manual start of a program from control panel

## ON-SITE DIAGNOSTIC/TROUBLESHOOTING FEATURES

Fault review displays all faults, including open and shorted zones
Test function using on-board multi-meter
Built-in valve locator
Backtrack Stored Program™ with Grow-in option

## ADDITIONAL FEATURES

Zone-to-zone delay
Master valve timing sequence with zone valve programmable
Master valve/pump start operation assignable On/Off by zone
Clear program function
Clear All function

# HOW TO SPECIFY

### SmartLine® Specification

| Model | Description (Indoor/Outdoor) | Increase Station Count |
|---|---|---|
| SL800 | 4 - Station Base Model (Indoor) | SLM2 - 2 Station / up to 8 Zones |
| SL1600 | 4 - Station Base Model | SLM4 - 4 Station / up to 16 Zones |
| SL1620 | 20 - Fixed Stations | N/A |
| SL1624 | 24 - Fixed Stations | N/A |
| SL4800 | 12 - Station Base Model | SLM2 - 12 Station / up to 48 Zones |
| SL9600TW | 96 - Zone/2-Wire System | SmartLine controller and 96 Zone decoder module |

### Plastic Enclosure / SmartLine® Specification

| Model | Description | Modules |
|---|---|---|
| SL4800PE-PED | High Grade Polyethylene Enclosure with the SmartLine SL4800 12-Zone Controller (Base Model) Installed | SLM12 - 12 Zone Maximum of 48 zones |

### SmartLine® Enclosures Specification

| Model | Description |
|---|---|
| SLPED-ENC-SS-4800 | Stainless Steel Enclosure with Pedestal for PL4800/SL4800/SL9600TW |
| SLPED-ENC-M-4800 | Powder-coated Metal Enclosure with Pedestal for Stainless Steel Enclosure with Pedestal for PL4800/SL4800/SL9600TW |
| SLPED-ENC-SS-1600 | Stainless Steel Enclosure with Pedestal for PL1600/SL1600 |
| SLPED-ENC-M-1600 | Powder-coated Metal Enclosure with Pedestal for PL1600/SL1600 |
| SLWM-SS-4800 | Stainless Steel Wall Mount Cabinet for PL4800/SL4800/SL9600TW |
| SLWM-M-4800 | Powder-coated Metal Wall Mount Cabinet for PL4800/SL4800/SL9600TW |
| SLWM-SS-1600 | Stainless Steel Wall Mount Cabinet for PL1600/SL1600 |
| SLWM-M-1600 | Powder-coated Metal Wall Mount Cabinet for PL1600/SL1600 |
| SLPED-1600 | Stainless Steel Pedestal for SL1600 |
| SLPED-4800 | Stainless Steel Pedestal for SL4800 |

### SmartLine® Weather Sensor Specification

| Model | Description |
|---|---|
| SLW1 | Wired Weather Sensor for ET Based Watering * 35ft of cable provided |
| SLW5 | Wireless Weather Sensor for ET Based Watering * 900mhz - 1500' LOS Range |

### SmartWire® 2-Wire Specification

| Model | Description |
|---|---|
| SLM16DM | 16 - Zone Decoder Programming Module |
| SLM24DM | 24 - Zone Decoder Programming Module |
| SLM48DM | 48 - Zone Decoder Programming Module |
| SLDEC1 | 1 - Valve Decoder |
| SLDEC2 | 2 - Valve Decoder |
| SLDEC4 | 4 - Valve Decoder |
| SLGDT | Lightning Arrestor |
| SLWIRE142-1000 | 2 - Conductor/14 - Gauge Wire (1000') |
| SLWIRE142-2500 | 2 - Conductor/14 - Gauge Wire (2500') |
| SLWIRE122-1000 | 2 - Conductor/12 - Gauge Wire (1000') |
| SLWIRE122-2500 | 2 - Conductor/12 - Gauge Wire (2500') |

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