

## ***Technical Specifications***

### **SMARTLINK BUNDLE**

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#### **FEATURES**

- SmartLine controller, SLW5 Wireless Weather Station, SmartLink Aircard including subscription and extended warranty prepackaged in a single bundle all at an advertised price
- Multiple station count, flow, and control wire configurations to choose from
- Everything you need prepacked in a bundle makes ordering and shipping simple

#### **SMARTLINE CONTROLLER FEATURES**

- 16, 24, and 48 zone (conventional wire) and 48 and 96 zone (two-wire) controller options
- Large backlit LCD display
- 2 run modes: Standard mode runs user input zone run times; Auto Adjust mode requires SLW Series On-Site Weather Station to calculate weather based run times
- Rain/Freeze sensor bypass/active button displays sensor status with tricolor LEDs
- 4 programs; 8 start times per program
- Nonvolatile memory
- Zone run times from 1 min. to 9 hrs. 55 min.
- Watering day selections of custom days of the week, odd/even, or interval days (1 – 30 days)
- Omit settings: omit time of day window, omit day(s) of week, and omit up to 7 calendar dates
- Monthly % adjust by program
- Fault review displays all faults, including open and shorted zones
- On-board multi-meter displays transformer voltage; milliamp measurement for each zone
- Built-in valve locator chatters the solenoids
- Review menu displays ET deficits by zone and corresponding zone run times
- Review menu accumulates total run times by zone
- Programmable rain delay of 1 – 7 days

#### **SLW WEATHER STATION FEATURES**

- Rain shut-off settable from 1/8 – 1" (3 – 25mm)
- Extended rain delay adds time to rain events before deficits begin to accumulate
- 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
- On-board diagnostics indicate battery and communication status
- Remote battery strength measurement from the SmartLine® controller
- 5" (12.7cm) adjustable aluminum bracket for gutter thumb-screw or wall mount
- Operates on a bi-directional frequency for superior range and reliability

#### **SL-AIRCARD FEATURES**

- Enables communication to the SmartLink internet based application
- Enables remote control operation through any mobile smart phone, computer tablet, or other mobile internet appliance
- Allows all controller programming functions to be accomplished through the SmartLink web application.
- Utilizes cellular-based M2M communication to the internet

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## SMARTLINK BUNDLE

### SELECTING A SMARTLINK BUNDLE

<b>1 Choose your SmartLine Controller</b>	
SmartLine Controller	
Model	Description
SL1600-	16 Zone Controller
SL1624-	24 Zone Controller
SL4800-	48 Zone Controller
SL9648TW-	48 Zone Two-Wire Controller
SL9696TW-	96 Zone Two-Wire Controller
SLSOLAR48-	48 Zone Solar Controller
SL9648TWSLR-	48 Zone Solar Two-Wire Controller
SL9696TWSLR-	96 Zone Solar Two-Wire Controller
<b>2 Add a Service Plan</b>	
Model	Description
1YR-BUNDLE	1 Year Service Plan
3YR-BUNDLE	3 Year Service Plan
5YR-BUNDLE	7 Year Service Plan
10YR-BUNDLE	10 Year Service Plan
<b>3 Add Optional Flow</b>	
Model	Description
-FLOW	Aircard with Flow



Examples:	
Model	Description
SL1600-1YR-BUNDLE-FLOW	SL1600 conventional wire, plus flow 1-Year Bundle
SL4800-3YR-BUNDLE	SL4800 conventional wire, No flow 3-Year Bundle
SL9696TW-5YR-BUNDLE-FLOW	SL9696TW two-wire, plus flow 5-Year Bundle
SL9648TWSLR-1YR-BUNDLE	SL9648 two-wire solar, No flow 1-Year Bundle



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SMARTLINK BUNDLE(S) shall be SmartLine controller, SLW5 weather station, SL-Aircard, and annual subscription and extended warranty pre-packaged by Weathermatic Sprinkler Division of Telsco Industries.

SmartLink Bundles shall be available in multiple station count, flow, and control wire configurations.

WEATHER STATION(S) shall be SLW5 as manufactured by Weathermatic Sprinkler Division of Telsco Industries. Weather stations must be compatible for use with SmartLine irrigation controls.

CONSTRUCTION: Weather station shall be wireless in design using bi-directional communication. Weather station shall have integrated on-site sensors for rain-shut off, freeze shut-off and calculation of daily evapotranspiration irrigation deficits. Weather station shall have an integral mounting bracket with a two-point articulating arm made from high-impact molded resin. Weather station shall be suitable for outdoor mounting in commercial or residential environments. Weather station shall be capable of two-way communications with the SmartLine controls and have independent power supply, self-diagnostic circuit and microprocessor.

OPERATION: Weather stations rain sensor shall be adjustable to interrupt irrigation after a user selected precipitation amount of 1/8th", 1/4" or 1/2". Weather station shall be capable of interrupting irrigation after temperatures reach below 37 degrees Fahrenheit. Weather station shall provide instant notification to the controller of either a rain or freeze event and upon clearing of the same. Evapotranspiration deficits shall be calculated daily and transferred to the SmartLine controller each day.

WARRANTY: Weather station shall have a manufacturer's limited warranty of two (2) years.

CONTROLLER(S) shall be model SL1600, SL1624, SL4800, or SL9600TW as manufactured by Weathermatic Sprinkler Division of Telsco Industries. Controller(s) shall be a four (4) program, stand-alone controllers capable of operating up to 16, 24, 48, or 96 remote control valves. Controller(s) shall be compatible with SLW series weather station for fully automatic adjustment of seasonal irrigation schedules.

OPERATION: Controller(s) may be programmed to operate with either user supplied station run times or automatically calculated station run times based on SLW weather station data, sprinkler type, plant type, soil type and slope. Automatic water conservation shall be available using either twelve programmable monthly seasonal percentage adjustments or automatic ET based adjustments based on SLW series weather station real-time, on-site climate data. The user may select to move between timed station mode or ET mode without loss of programming information. Each program shall have eight independent start times, calendar schedules, watering budgets, and cycles for varying sprinkler types and soil percolation rates. Controller shall have a user-selectable cycle and soak feature, by program, and fully automatic cycle and soak based on sprinkler precipitation rates, soil type and slope for reduction of run-off. The controller shall be capable of storing a user-created default program which may be retrieved at a later date to replace any overrides or adjustments to scheduled operation. Controller shall have a standard pump start or master valve output which shall be programmable to operate on demand from any selected controller station. A programmable pump start/master valve delay shall be included in the pump circuit.

WARRANTY: SmartLine Controller(s) shall have a manufacturer's limited warranty of two (2) years

AIRCARD(S) shall be SL-AIRCARD as manufactured by Weathermatic Sprinkler Division of Telsco Industries. SL-AIRCARD shall be compatible with indoor and outdoor suitable modular weather based controllers, configurable in 4, 8, 12, 16, 20, 24, 36 and 48 stations through the addition of 4 or 12 station modules, and equipped with on-site weather monitors with adjustable rain sensors.

CONSTRUCTION: Connectivity to controllers shall be through a cellular Aircard via RJ-11 phone line connection in the controller. Aircard shall be weatherproof for indoor or outdoor mounting with antenna included; optional high gain antenna.

OPERATION: SL-AIRCARD shall be internet based application with no software to be applied on internet appliance

Unlimited data, unlimited number of users, and unlimited sites with no training, long term contracts or software required.

SL-AIRCARD shall allow all controller programming functions to be accomplished through the manufacturers Web interface.

Internet appliance can be a desktop computer, laptop computer, computer tablet and/or a smart phone with internet capability

Communication from the internet appliance to the controller will consist of a compound network utilizing cellular machine-to-machine data connections.

SL-AIRCARD shall enable remote control operation through any mobile smart phone, computer tablet, or other mobile internet appliance.

SL-AIRCARD shall be activated through an online subscription. User shall have options as to number of years for activated subscription

Subscription shall include optional extended warranty to include coverage to the control system for lightning, theft, and physical damage for the length of service.

WARRANTY: SL-AIRCARD shall have a manufacturer's limited warranty of two (2) years.



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