



# CONTROLLERS

## SMARTWIRE® 2-WIRE SYSTEM

### SmartWire™

2-Wire Decoder System

The SmartWire™ 2-Wire Decoder System has the same rich, user-friendly features as the market leading SmartLine® controller.

#### ✓ Decoder Module Features

- Compatible with SmartLink®
- Connections for up to 3 different 2-Wire paths for maximum installation flexibility
- LED display and status lights for programming, operation status, and troubleshooting with error codes
- Programs and operates SmartWire™ SLDEC Series decoders

#### ✓ Warranty

- 3 Years - SmartWire when used with SLWIRE, SLCONN connectors
- 2 Years - SmartWire when used without SLWIRE

#### SLDEC

Valve Decoder



#### SLGDT

Lightning Arrestor



#### SLCONN

Splice Kit



#### SmartWire™ Specifications

MODEL	DESCRIPTION	INTERNATIONAL MODEL
SL9648TW	SmartWire 48-zone 2-Wire Fixed Zone Count	E-SL9648TW
SL9696TW	SmartWire 96-zone 2-Wire Fixed Zone Count	E-SL9696TW
SLDEC1	1-Valve Decoder	
SLDEC2	2-Valve Decoder	
SLDEC4	4-Valve Decoder	
SLGDT	Lightning Arrestor	
SLCONN	SmartWire Splice Kit	
SLCAM	SmartWire Clamp-On Amp Meter	

#### ✓ Decoder Features

- 1, 2, and 4 valve decoders available
- Decodes signals from controller to open and close valves
- Input voltage 24 – 28 volts from 2-Wire path
- Shock resistant
- Surge protection
- Fully programmable for valve addresses using on-board controller programming feature
- Freeze/heat resistant (-20° to 60°C)
- 14 gauge PVC-coated connecting wires
- Sealed electrical components for protection from water and dirt
- Operates valves to a maximum of 100' (30m) from decoder
- Diagnoses and reports failed solenoids
- Auto shut-down if communication is lost

**1,000 gallons** given per controller

Our mission is to deliver clean drinking water to thousands of families in need, and to inspire our partners to put water first in irrigation, design, installation, and maintenance.

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Save Water. Give Life.



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**SmartWire™**  
2-Wire Decoder System

### WIRING SIZES

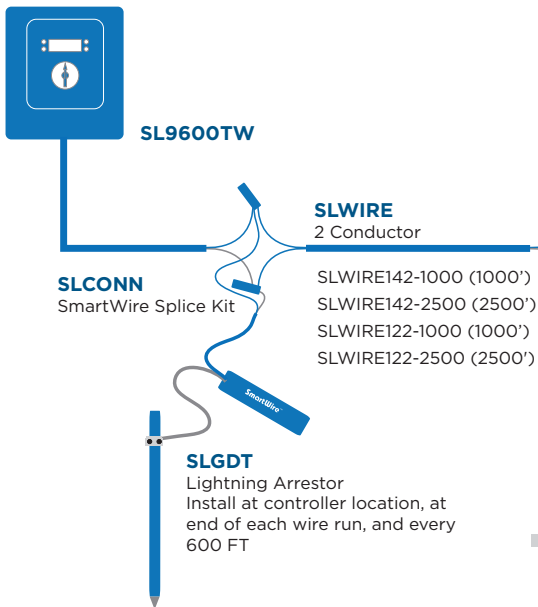
Straight line configuration, i.e. wire distance to the furthest decoder, no loop:

Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	1,000	2,000	4,000	6,000
Wire Length (m)	305	610	1,210	1,829

Loop configuration, i.e. wire distance to the furthest decoder in the loop:

Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	2,000	4,000	10,000	10,000
Wire Length (m)	610	1,210	3,048	3,048

Maximum total wire path length is 10,000 ft. (3,048 m).



### HOW IT WORKS

A SmartWire SLDEC valve decoder is wired to each valve. Each decoder has a programmable address (typically the zone number), which identifies it to the SmartWire SL9600TW controller.

### SLDEC Valve Decoder

The SL9600TW 2-Wire controller broadcasts a command to activate a certain address or zone. All decoders on a 2-Wire path "decode" the message, but only the appropriate decoder responds and turns the attached valve on or off. The decoder reports back to the controller with a status message of positive operation or an error code.



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