

SL-2-DC Controller

Section Outline

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1. OVERVIEW

This document provides instructions for installing the Outdoorlink® SL-2-DC controller. Review and adhere to all applicable local electrical codes prior to installation. For detailed technical information refer to the SL-2-DC technical data sheet [here](#), or at <https://outdoorlinkinc.com/documentation/>.

Controller Overview



Marking	Description
STATUS	LED light indicating cellular connection status
PORT 2	LED light indicating Port 2 is powered
ON / OFF 2	Manual push button turn Port 2 on or off
PORT 1	LED light indicating Port 1 is powered
ON / OFF 1	Manual push button turn Port 1 on or off
IN1	DC power IN to Port / Device 1 also provides power to the controller
OUT1	DC power OUT to Port / Device 1
IN2	DC power IN to Port / Device 2
OUT2	DC power OUT to Port / Device 2
AUX	Auxiliary device connection (example: battery thermistor)
USB 2.0 Micro B	USB connection for troubleshooting device
SERIAL	RJ45 serial port
NONE	SMA/F Connector - External antenna connection.
(+)	Positive polarity
(-)	Negative polarity

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2. PRE-INSTALLATION

- Ensure your power source is 8 to 36 VDC.
- Each relay is rated at 6A 100W.
- 26 to 14 AWG wiring is supported for both input and output connections.

3. INSTALLATION



CAUTION: Follow all applicable electrical codes and safety procedures.

Wiring Connections

To wire the connections for the SL-2-DC controller:

1. Refer to the wiring diagrams below for configuration details. Insert stripped supply and feed wires into the input and output terminal block ports. Refer to the controller overview to ensure the correct polarity. Tighten the terminal block screws to secure the connection.
2. Push the Port 1 and Port 2 buttons to separately cycle the relays and to ensure the wiring is correct.

Port 1 and 2 LED Light Indicators:

Solid light - target device is connected and drawing current.

Blinking light - target device not drawing current.

No light - port 1 is off.

3. With the controller powered on verify that the controller connects to the cellular network.
Status Light Indicators

No light - Controller is not powered.

Slow Blink - Controller is not connected to cellular network and is searching for network connection.

Rapid Blink - Controller is connected to cellular network.

4. If the controller is installed inside of a metal or location where it is not able to connect to the cellular network when closed it may require an external antenna to be routed outside of the enclosure.

The SL-2-DC has two antenna modes: internal and external. By default, it is set to internal mode when shipped.

- To enter external antenna mode, hold either the PORT 1 or PORT 2 button for 5 seconds.
- The STATUS LED light will rapidly blink for five seconds and pause for one second if the device is in external antenna mode and connected to a cellular network.
- To exit external antenna mode, hold either the PORT 1 or PORT 2 button for 5 seconds.

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5. Important: Once the controller is installed and connected to the cellular network use the Outdoorlink web or mobile application to add the controller to a site and activate it or contact Outdoorlink support at (256) 885-9768.

Additions

Some orders include a thermistor temperature probe which monitors the temperature of a battery or assets. The thermistor includes specific instructions in its circuitry that are configured for this exact use case. Therefore, third-party thermistors are not compatible with the SL-2-DC controller.

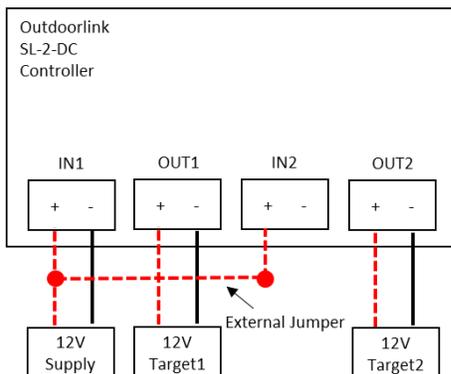
4. OPERATION

Portal Application Setup

To set up the controller in the Portal application, refer to the Outdoorlink® Vantage Portal User Guide located [here](#) or at <https://outdoorlinkinc.com/>.

5. WIRING DIAGRAMS

Single Supply w/ 2 Target Devices



Dual Supply w/ 2 Target Devices

