SL-2-DC-001 Setup Guidelines

Disclaimer: OutdoorLink recommends that during the installation of all SmartLink units, any electrical codes that apply to the wiring and troubleshooting of these units, are studied, and adhered to. Electrical codes vary by area, so please verify local requirements prior to installation. OutdoorLink assumes no liability for any injury or death incurred during the installation of the SmartLink unit.

Questions? Contact OutdoorLink's support team at (256) 885-9768 ext. 1 or support@outdoorlinkinc.com.

SL-2-DC-001 Technical Specifications

Device Management	Manages up to 2 DC devices per controller
Runtime Settings	Automatic Sunrise to Sunset and/or Manual Time Scheduling
Enclosure	Polycarbonate, 6 x 3 x 1 in. (approx. 15.2 x 7.6 x 2.5 cm)
Input Voltage	Two independent inputs, 8-30Vdc @ 3A each
Output Voltage	Two independent outputs, 5-30Vdc per output @ 3A each
Power Consumption	0.15 W or ~0.01 A
Connectivity	LTE cellular connection with internal SIM & integrated antenna
Smart Weather	Devices activate outside of scheduled run-times per NOAA forecast maps
Operating Temp.	-20°C to 70°C
Environmental	Polycarbonate enclosure, 0-95% humidity, non-condensing, RoHS
Wiring Connection	Terminal block, 18AWG
System Reporting	Power readings, proof of performance, alarm history, maintenance log, battery temperature
Alarm Notifications	Loss of power, low power, power restore, low voltage, high voltage

SL-2-DC-001 Interface

The SL-2-DC controller can manage up to two DC devices that are either AC or DC (solar) powered. Below is a summary of interface options, however not all features apply to all installations.

Image 1

SL-2-DC-001 Interface Index

1	Terminal Block IN (+)
2	Terminal Block IN (-)
3	Terminal Block OUT1 (+)
4	Terminal Block OUT1 (-)
5	Terminal Block OUT2 (+)
6	Terminal Block OUT2 (-)
7	Terminal Block Temp/AUX
8	Terminal Block Temp/AUX
9	USB 2.0 Micro-B Female
10	RJ45 to Serial Female
11	Connector for optional external antenna

SL-2-DC-001 Installation Guidelines

OutdoorLink technical support, can be reached at (256) 885-9768 ext. 1 or support@outdoorlinkinc.com.

Tools & Materials Needed (not provided)

1. Wire crimpers

2. Mini standard screwdriver to secure terminal connections

3. 3M two-sided adhesive tape or two-sided Velcro for mounting

Installation Steps

1. The SL-2-DC-001 operates between 8-30Vdc. A supply line within this range is needed for the input power.

2. Voltage into the unit equals voltage out to both Ports. I.e., if a 12Vdc power supply feeds the SmartLink, then both Port outputs will receive 12Vdc. When managing devices of different DC voltages, the higher voltage (i.e., 19Vdc) should feed the Input to the SmartLink and a down converter should be used to convert the higher voltage to the lower voltage device (i.e., 12Vdc).

3. Choose installation placement and confirm cable lengths are sufficient for making all device connections. The SmartLink should be facing outward and upward for optimal cellular connectivity.

4. Place the SmartLink on the chosen location and use double-sided tape or Velcro to secure the unit.

5. Wiring Connections

    a. The SL-2-DC controller requires 18 AWG wiring for both input and output connections. For devices with barrel jack connectors, OutdoorLink can provide a Connector Kit with female and male barrel connectors for 12V and 19V DC devices.

    b. SL-2-DC Wiring Overview

Device Management	Manages up to 2 DC devices
Input Voltage	8-30Vdc @ 6A
Output Voltage	8-30Vdc per output
Output Power	3A per port
Wiring Connection	Terminal block, 18AWG
Auxiliary Output	Battery thermistor attachment for temperature monitoring (solar)

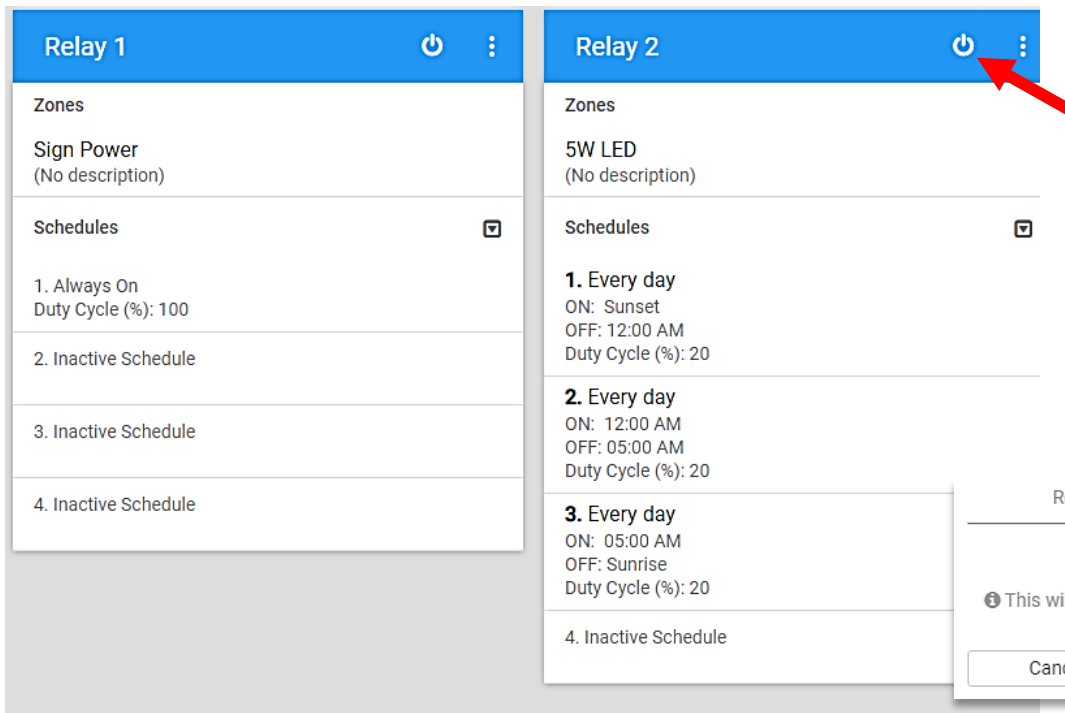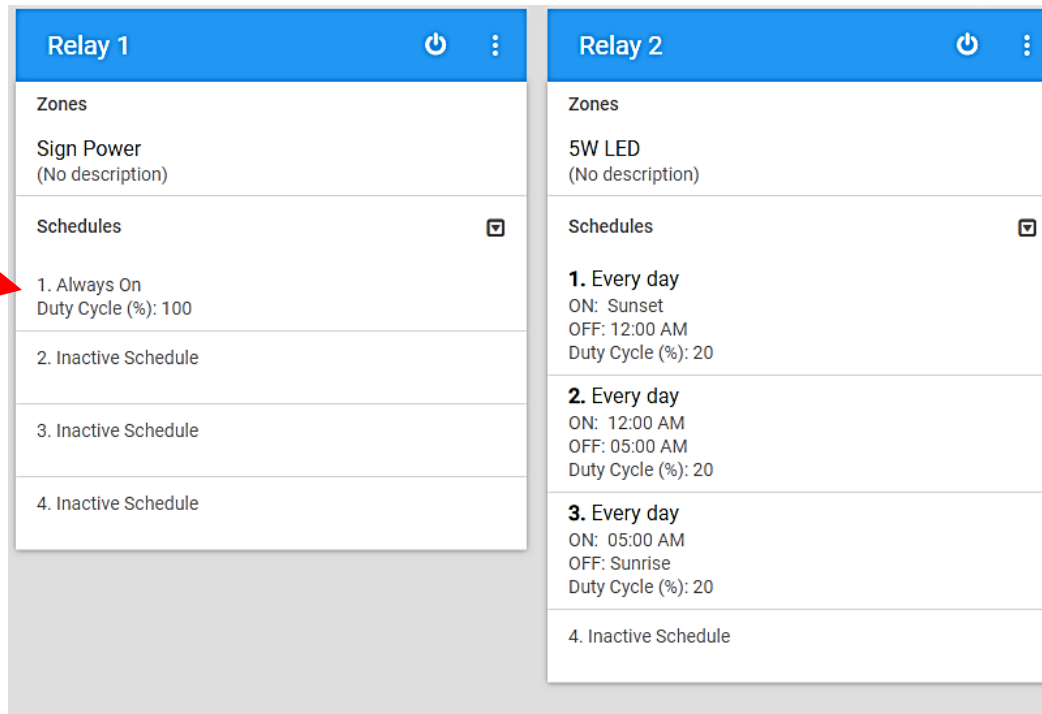   c. See Image 2 on page 4 for reference.

Image 2
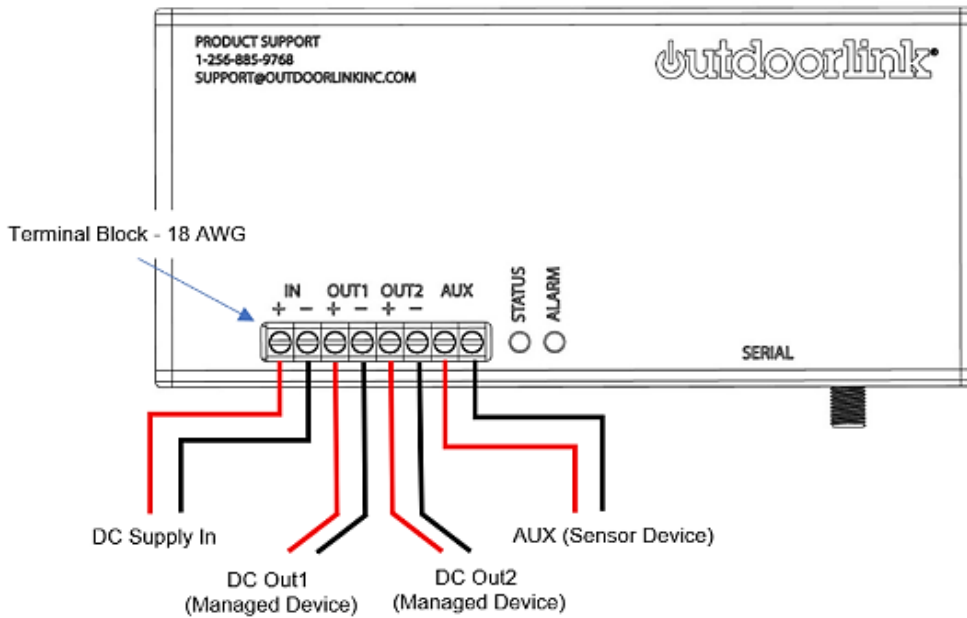
6. Connect the POS and NEG power supply lines to the IN terminal block with 18AWG wire. If using an AC power supply, then a wiring harness should be supplied to connect the female and male barrel connectors of the adapter.

7. Once power is connected to the controller, a green light should start flashing quickly. If the light is flashing slowly, then the SIM card is still reconnecting to its cellular carrier.

8. Connect the devices to OUT 1 and OUT 2. Do this by either directly hardwiring the devices with 18AWG POS and NEG wire or use an OutdoorLink supplied wiring harness with barrel connectors.

9. Devices will not turn on unless the schedules are assigned to be ON at the time of installation in the SmartLink portal. To do this, login to the portal: https://portal.outdoorlinkinc.com/login, search for the last 4 digits of the ICCID number on the SmartLink controller, and go to the unit's Dashboard:
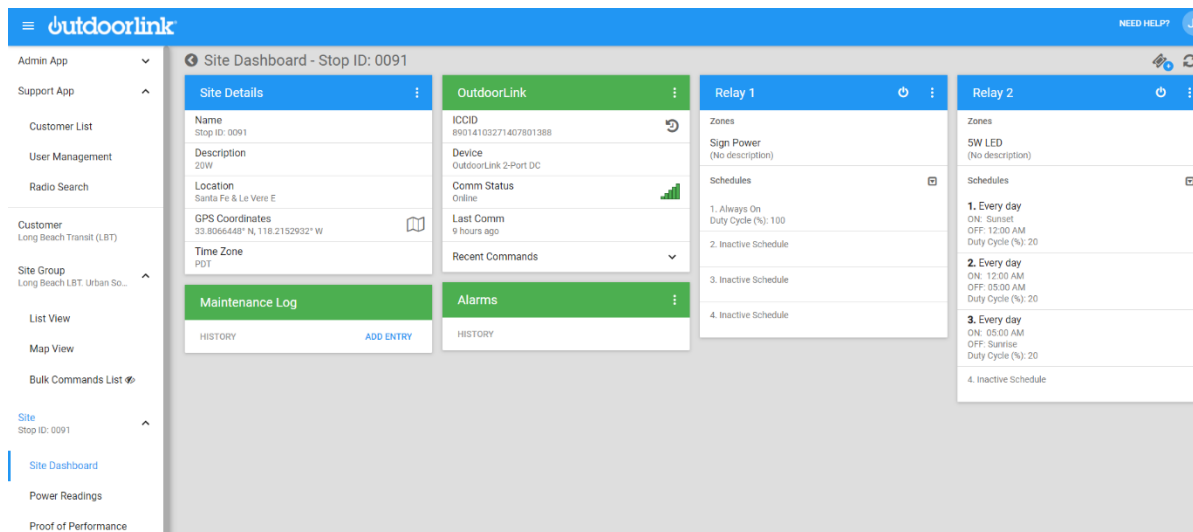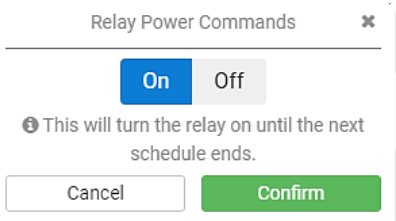
10. If the schedule is set for *Always On,* or the Relay is scheduled to be on at the time, the device should power up once the controller receives power and connects to its cellular carrier. If the schedule is not set to be on at the time, then push the Power Button located on the blue header of each Relay:

If schedule is set for *Always On*, then the device should turn on once it receives power and connects to its carrier.

Relay 1	⏻	⋮

Zones

Sign Power
(No description)

Schedules ▼

1. Always On
Duty Cycle (%): 100

2. Inactive Schedule

3. Inactive Schedule

4. Inactive Schedule

Relay 2	⏻	⋮

Zones

5W LED
(No description)

Schedules ▼

1. Every day
ON: Sunset
OFF: 12:00 AM
Duty Cycle (%): 20

2. Every day
ON: 12:00 AM
OFF: 05:00 AM
Duty Cycle (%): 20

3. Every day
ON: 05:00 AM
OFF: Sunrise
Duty Cycle (%): 20

4. Inactive Schedule

Relay 1	⏻	⋮

Zones

Sign Power
(No description)

Schedules ▼

1. Always On
Duty Cycle (%): 100

2. Inactive Schedule

3. Inactive Schedule

4. Inactive Schedule

Relay 2	⏻	⋮

Zones

5W LED
(No description)

Schedules ▼

1. Every day
ON: Sunset
OFF: 12:00 AM
Duty Cycle (%): 20

2. Every day
ON: 12:00 AM
OFF: 05:00 AM
Duty Cycle (%): 20

3. Every day
ON: 05:00 AM
OFF: Sunrise
Duty Cycle (%): 20

4. Inactive Schedule

If schedule is not set for *Always On*, and schedule is not on at the time of testing, press the Power Button on the header of each Relay to turn the device on.

This will keep the device on until the end of its upcoming schedule (below).

Relay Power Commands ✖

On	Off

ⓘ This will turn the relay on until the next schedule ends.

Cancel	Confirm

11. To confirm incoming voltage and each Relay's load, click on the three vertical dots on the header of the OutdoorLink Control Box and select "Get Unit Status."
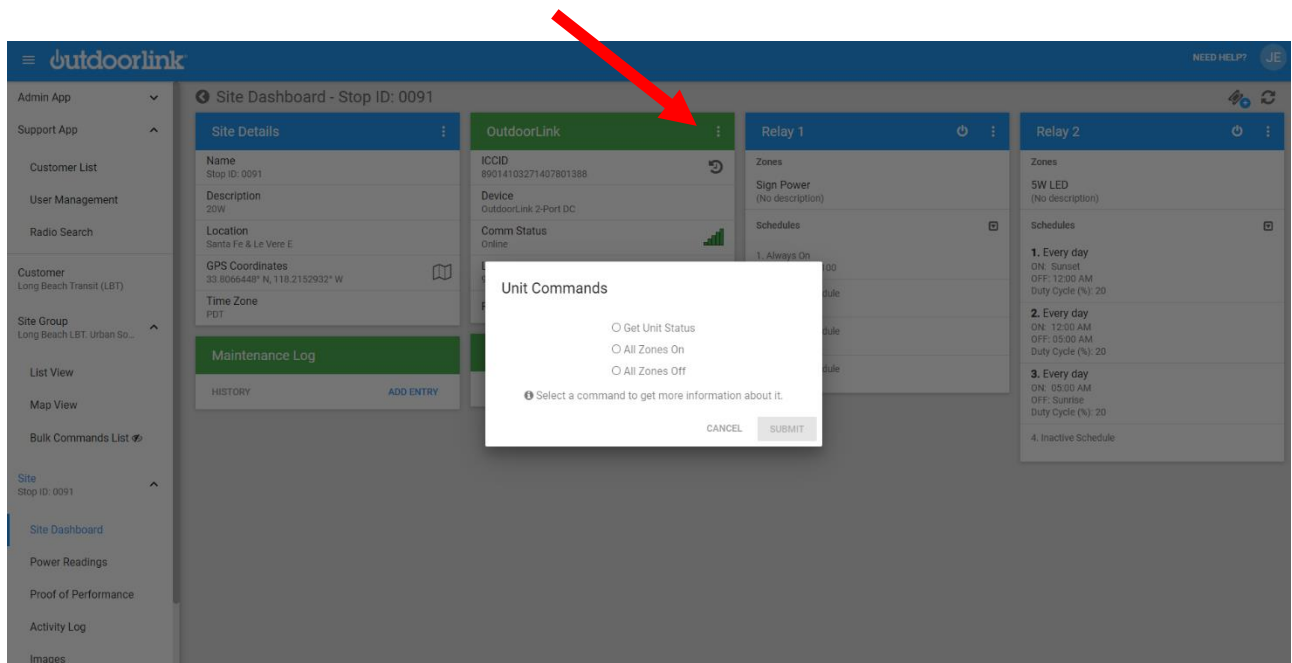
12. Go to *Power Readings* on the left side of the portal and select *Live Power* to confirm each Relay's load.