LDRA6 Quick Start Guide



Thank you for purchasing the SeaHawk LDRA6. This guide describes how to install the LDRA6.

If you need further assistance, contact RLE Technologies on our website at **http://www.rletech.com/** (go to the **Support Link**) or by calling **970.484.6510, Option 2**.

SeaHawk

RLE Technologies

1 Supplies for Installation

Included with the LDRA6

- Wall mounting hardware (included)

Sold Separately

- 24VDC wall adapter (part #PSWA-DC-24)
- Leader Cable Kit (one per zone for leak detection cable; part #LC-KIT)
- SeaHawk Leak Detection Cable (sensing cable)
- SeaHawk Spot Detectors (SD-Z or SD-Z1 *only*)

2 Installing the LDRA6

The LDRA6 is a wall mounted device. Perform these steps:

1. Secure the unit to the wall using the provided wall mount anchoring hardware.
2. Bring 24VDC to the LDRA6's input power terminal block, or use an RLE 24VDC wall adapter (part #PSWA-DC-24).

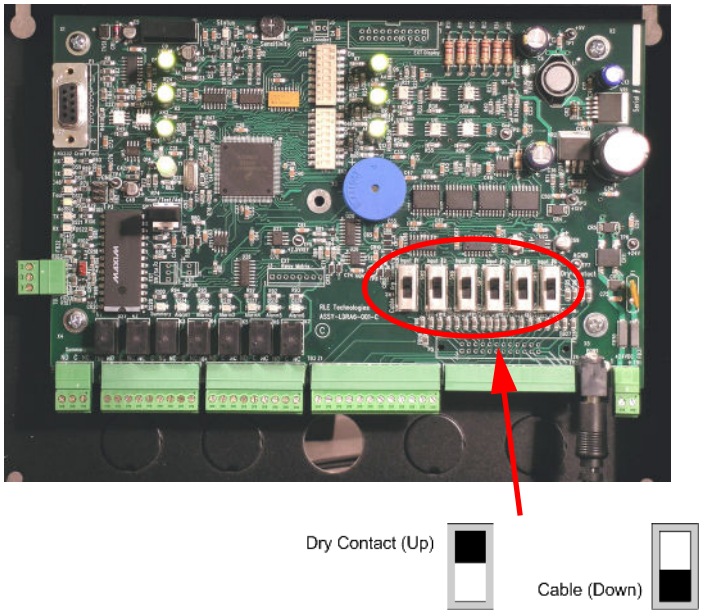
   The unit should be able to power up and give no alarms upon default, factory settings (all inputs are normally open dry contact configuration).

3 Installing the Dry Contacts

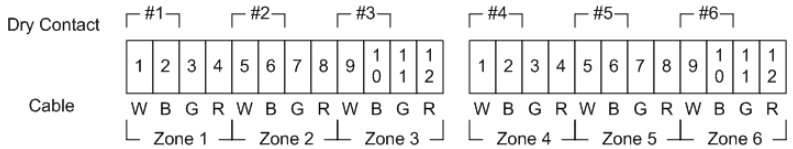
The LDRA6 accepts dry contact inputs. Configure the LDRA6 for dry contact inputs as follows:

1. Set the desired zone's switch in the Dry Contact position (default).
2. Attach a normally open input into the appropriate terminal block position.

   Each zone is allotted four terminal block positions. The first two positions for each zone are used for the Dry Contact input; refer to the LDRA6 User Guide for a detailed table/description for input terminal blocks. (The *LDRA6 User Guide* is available at http://www.rletech.com.)
3. Wire each desired dry contact input.
4. Test each input or short each to verify correct configuration.



If configured correctly, the LDRA6 will go into alarm for the appropriate zone.



4 Installing Leak Detection Cable and Spot Detectors

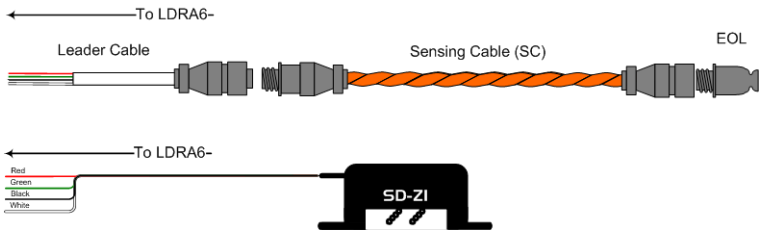
1. Set the desired zone's switch in the Cable position.
2. Route the SeaHawk leak detection cable (sensing cable) through the area to be monitored. Use caution when routing the sensing cable around objects so that the cable does not get damaged.

   The cable should lie flat on the floor where it is laid and the area should be clean to prevent false alarms due to contamination. RLE recommends the use of SeaHawk J-clips (JC) to secure the sensing cable to the floor.
3. Mount the SD-Z or SD-Z1 spot detector in the area to be monitored. The spot detector can be mounted with a ram set, mounting studs, or bonding material (Mastic®).

Note: One Leader Cable Kit (LC-KIT), sold separately, is required per zone to connect the LDRA6 to SeaHawk sensing cable. Spot detectors do not require a special cable to connect to the LDRA6 panel; use a standard 22/4 conductor cable to extend the distance to the LDRA6. Contact RLE for distances over 500 feet (152.4m).

4. Connect the cable to a leader cable and an end of line terminator (EOL) to the end of the cable run.
5. Wire the leader cable to the desired zone to be monitored.

   The LDRA6 should have no alarms when the cable is configured and installed correctly.
6. To test that the cable is registering alarms properly, disconnect the cable, and verify that a cable break alarm has occurred (yellow flashing alarm).
7. Reconnect the cable, reset the unit, and test the unit for leaks by placing a damp cloth around the sensing cable.



If a leak alarm occurs (red flashing alarm), the sensing cable has been successfully installed. For more detailed instructions and installation tips, refer to the *LDRA6 User Guide*.

5 Wiring for Alarm Notifications

Wire each relay output to the desired external alarm or building management system (BMS). The LDRA6 has a general system summary alarm output, and each zone has an individual relay output.

6 Using Modbus Output

Wire the Modbus output via the EIA-485, twisted-pair wire to the desired alarm or BMS. For Modbus registers, refer to the *LDRA6 User Guide* available at http://www.rletech.com.

7 Modifying Configuration Settings

You can adjust settings for the LDRA6 such as leak sensitivity for individual zones, LED alarm colors, and Modbus port adjustable settings.

To change these settings:

1. Connect a pass-through cable from your computer to the LDRA6's Craft Port (this port is an EIA-232 connection).
2. Use HyperTerminal to access the LDRA6's configuration options.

For more information about these options, refer to the *LDRA6 User Guide* (available at http://www.rletech.com).

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