LD1000 Quick Start Guide

Thank you for purchasing the SeaHawk LD1000 leak detection controller. This guide describes how to install the LD1000.

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 LD1000

- Wall mounting hardware
- 15ft. (4.57m) leader cable
- End-of-line terminator (EOL)

Sold Separately:

- 24VAC power supply (WA-AC-24-ST) or 24VDC power supply (PSWA-DC-24-ST)
- SeaHawk Leak Detection Cable

2 Installing the SeaHawk LD1000

The LD1000 is a wall mounted device, and mounting hardware is supplied with every unit. Perform these steps:

1. Select a location for the LD1000 and place the two screw anchors in the wall 4.25 inches (107.9mm) apart.
2. Screw both screws into the wall anchors so that approximately 1/8 inch (3.18mm) of each screw is showing. It may be necessary to adjust the screws—in or out—so that the unit fits snugly to the wall.
3. Remove the front cover from the LD1000 and hang the rear of the unit on the screws.
4. Pull the unit toward the ground, so the screws nestle in the top of each keyhole, and securely fasten the unit to the wall.
5. Before reattaching the front of the unit, make all wiring connections and set all switches to the desired setting (see below for configurations).

3 Connecting the Power

The LD1000 requires 24VAC or 24VDC. Make sure to wire the appropriate power to the appropriate terminal blocks on the LD1000 to avoid damage or injury (i.e., DC power must only be wired to the terminal blocks labeled “DC IN” and AC power must only be wired to the terminal blocks labeled “AC IN”). If using DC power, the power supply must be an isolated power supply (part #WA-DC-24-ST).

WARNING

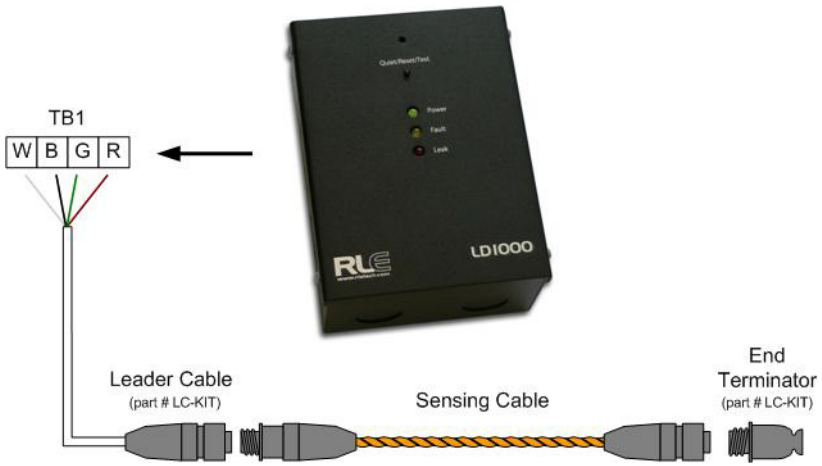
A dedicated circuit breaker must be provided within close proximity to the LD1000 and be clearly marked as the disconnecting device for the LD1000 leak detection controller.

4 Installing the Cable

The LD1000 includes a 15-foot (4.57m) leader cable and an end-of-line (EOL) terminator.

1. Connect the stripped end of the leader cable to the terminal block labeled “Cable” on the LD1000.
2. With the screws of the terminal block connector facing up, connect the leader cable wires in this order from left to right: white, black, green, and red.

   Once the leader cable is plugged into the terminal blocks, it is ready to be connected to the sensing cable. Perform these steps:
3. To do this, unscrew the EOL terminator from the end of the leader cable.
4. Attach the first length of sensing cable to the leader cable.
5. Route the sensing cable according to a cable layout diagram. For assistance, contact RLE Technical Support.
6. Secure the EOL terminator on the unoccupied end of the sensing cable.



5 Setting the Leak Sensitivity

Adjust R25 to set the desired leak sensitivity. By default, it is set to the mid-sensitivity setting (150mA) and may be adjusted to the low (300mA) or high (25mA) sensitivity setting by turning the dial.

6 DIP Switch Settings

SW1-1: Configures the output relays as supervised or non-supervised. If the relays are supervised, the relays remain on until either power is disabled or an alarm is detected (relay turns off). If the relays are non-supervised, the relays will turn on when an alarm is detected.

Off – Non-supervised (factory default)

On – Supervised

SW1-2: Configures the relays as latching or non-latching. If the relays are latching, then the relay will remain in alarm state (depending on SW1-1, supervisory setting) upon alarm until the Quiet/Reset/Test switch is pressed. If the relays are non-latching, then the relay will remain in an alarm state upon alarm until the Quiet/Reset/Test switch is pressed or the condition that caused the alarm returns to normal.

Off – Non-latching (Factory Default)

On – Latching

SW1-3: Configures the two output relays as a summary alarm or as two separate leak and fault alarms.

Off – Relay one is a leak alarm, and relay two is a fault alarm (factory default).

On – Relay one is a summary alarm, and relay two is a summary alarm.

SW1-4: Configures the Alarm Delay setting. This is the response time it takes for the unit to report an alarm condition (Leak or Fault) once detected. The alarm must be present during this entire period.

Off – 10 seconds (factory default)

On – 2 minutes

7 Setting the Audible Alarm

The audible alarm can be disabled for the LD1000. Remove the jumper cap from JMP2 to disable. This jumper cap is required if audible alarms are desired.

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