

LD5100 Quick Start Guide



Thank you for purchasing the SeaHawk LD5100 leak detection controller. This guide describes how to install the LD5100.

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.**



1 Supplies for Installation

Included with the LD5100

- ◆ Wall mount kit (screwdriver, holder, 4 screws, and 4 wall mount anchors)
- ◆ 15ft. (4.57m) leader cable
- ◆ End-of-line terminator (EOL)

Sold Separately

- ◆ SeaHawk Leak Detection Cable (sensing cable)

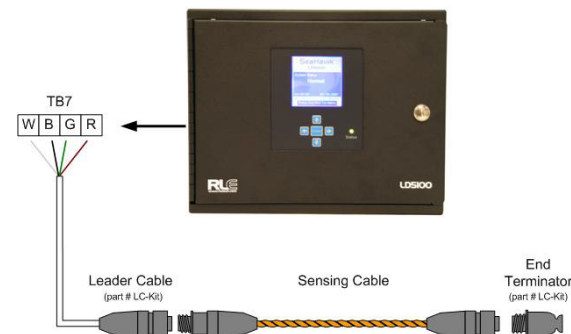
2 Installing the SeaHawk LD5100

The LD5100 is a wall mounted device. To secure the device to the wall:

- 1 Remove the aluminum back panel with the electronics from the enclosure.
There are knockouts on the top and bottom of the enclosure designed to accommodate 0.5 inch (m) conduit.
- 2 Remove as many knockouts as necessary.
There are two holes in the top back of the unit spaced 11.0 inches (m) apart.
- 3 Use drywall anchors to secure the unit to the wall.
- 4 Put two more drywall anchors through the two holes in the bottom back of the unit.
- 5 Reinstall the back panel, and reconnect the electronics.

3 Connecting the Water Leak Detection Cable

- 1 Connect the stripped end of the 15 foot (4.57m) leader cable to the terminal block labeled TB7 on the main board of the LD5100.
- 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 leak detection cable (sensing cable).
- 3 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; refer to the *LD5100 User Guide* for details about the layout diagram.
- 6 Secure the EOL terminator on the unoccupied end of the sensing cable.



4 Applying Power to the LD5100

Note: Wire colors are typical, but may vary.

The LD5100 operates on either 100 VAC to 240VAC power. An AC power source must be run to the location of the unit. RLE recommends having the LD5100 on dedicated circuit. UPS backup is preferred.



WARNING

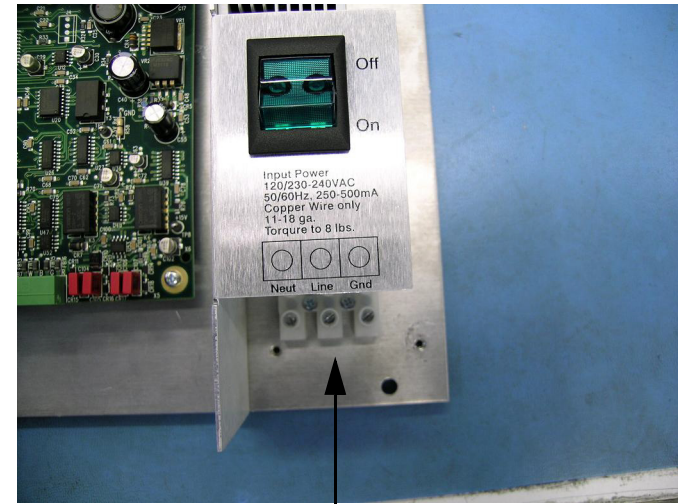
A dedicated circuit breaker must be provided within close proximity to the LD5100 and be clearly marked as the disconnecting device for the LD5100 leak detection controller.

- 1 Before applying power to the unit, make sure the AC breaker switch is turned off.
- 2 Once the power is turned off, strip the end of the AC supply so the three wires inside are exposed. Strip the end of each of the three wires and feed the end of the power supply into the LD5100 enclosure.
- 3 Insert the line (white) wire, neutral (black), and ground wires into the terminal block in the lower right corner of the enclosure.
- 4 As labeled in the enclosure, place the neutral power line inside the left hand position of the terminal block (Neut).
- 5 Place the Line into the opening on the center of the terminal block (Line).
- 6 Place the earth ground line into the opening on the right hand side of the terminal block (Gnd).
- 7 Once all the wires are placed inside the terminal block, turn the AC power supply back on.
The LD5100 begins booting up.
- 8 Wait approximately one minute. No alarm should be present.

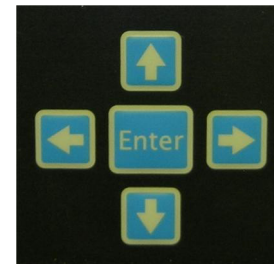
5 Using the LCD Interface

On the LCD, press any key for the main menu. Through the LCD submenus, you may set the clock, system name, alarm configuration, feet/meters, etc. Enter the Cable Status menu. The cable length is displayed. If this reading varies by more than $\pm 5\%$ of the actual length of cable installed, verify the installation.

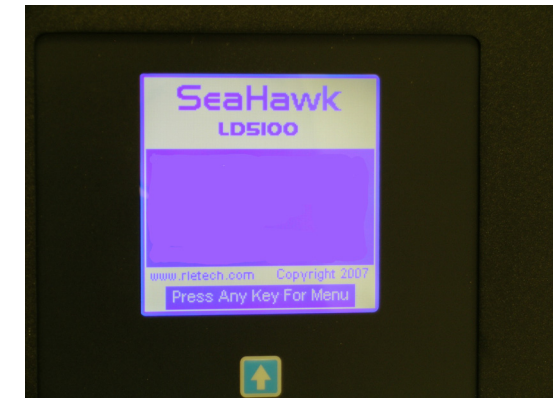
For more information about calibration, cable mapping, and the LCD interface, refer to the *LD5100 User Guide* available at www.rletech.com. The default password for the system setup menu is 1234.



Power terminal block



Keypad



LCD

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