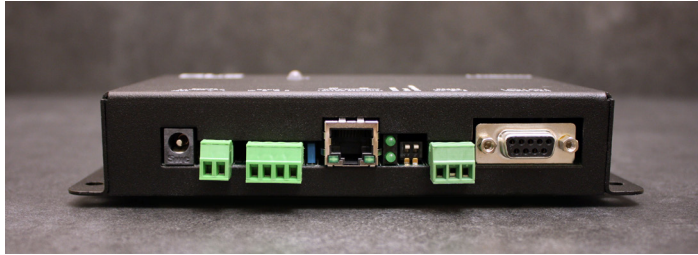


SeaHawk LD1500 Quick Start Guide



Thank you for purchasing a SeaHawk LD1500 distance-read leak detection controller. This guide outlines basic installation and configuration. Additional support information, including the User Guide, is available on our website - www.rletech.com. Before you install a LD1500, check the website to ensure you are using the most recent version of our documentation.

If you need further assistance, please contact RLE Technologies at support@rletech.com.

SeaHawk

v1.2
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RLE
Technologies

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Installation Supplies

Included with the LD1500

- LD1500 controller
- Crossover cable (blue with yellow ends)
- 15 foot (4.57m) leader cable
- End-of-line terminator (EOL)

Available from RLE, Sold Separately

- SeaHawk sensing cable - up to 1,500 feet (457m) of conductive fluid sensing cable or 1,050 feet (320m) of chemical sensing cable
- Optional Enclosure (LD-ENC)
- Isolated RLE power supply, DC (PSWA-DC-24) or AC (WA-AC-24)

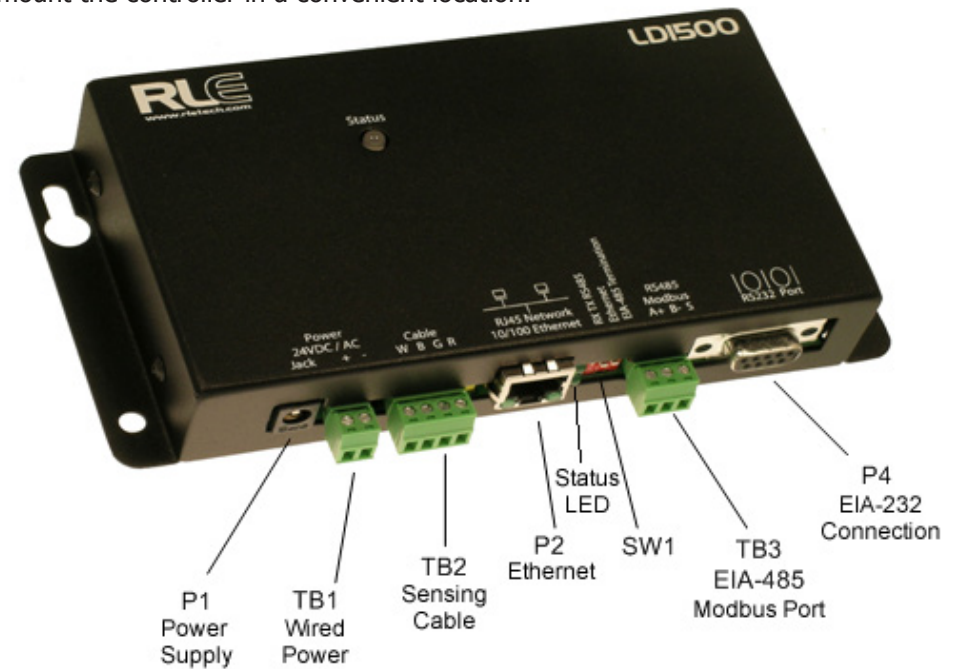
Network Communications Information

Consult your IT administrator and determine the following LD1500 network settings:

- IP Address _____
- Subnet Mask _____
- Default Gateway _____

Mount the Device

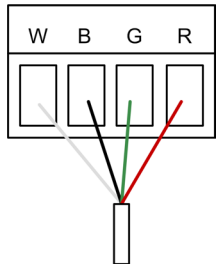
THE LD1500 is a panel mounted device. Use the included wall mount kit and mount the controller in a convenient location.



Install the Sensing Cable

Leader cable is included with the device and is used to connect sensing cable to the LD1500, since sensing cable cannot connect directly to the controller.

1. Insert the four stripped wires of the leader cable into the appropriate slots in the 4-pin terminal block connector - from left to right: white, black, green, and red. Tighten the screws on the terminal block connector to secure the leader cable. Thread the leader cable through a knockout on the bottom of the enclosure and plug the terminal block connector into TB2.
2. Unscrew the EOL from the end of the leader cable.
3. Attach the first length of sensing cable to the leader cable.
4. Route the sensing cable according to your cable layout diagram.
5. Secure the EOL to the unoccupied end of the sensing cable.



Apply Power to the LD1500



The LD1500 requires an isolated power supply.

A power supply is not included with the LD1500, but isolated DC (PSWA-DC-24) and AC (WA-AC-24) power supplies are available from RLE.

1. Run an isolated power supply to the location of the unit and plug it into P1. If you're wiring power directly, insert the wires into TB1 as noted.
2. Apply power. The device will boot. No alarms should be present. If an

alarm is present, verify sensing cable is connected to the unit, and the end-of-line terminator is connected to the end of the sensing cable. If the alarm is still present, consult the LD1500 User Guide.

Set the LD1500's IP Address

The LD1500 will not communicate properly over your network until you set the IP address. Use the provided crossover cable and a computer to set the IP address. (If you wish to configure the IP through the EIA-232 connection, consult the user guide for alternative directions.)

1. Plug one end of the crossover cable into the ethernet port on the LD1500. Plug the other end into your computer. This cable is NOT intended to plug into a network hub, and won't work if plugged into a network hub.
2. Write down the computer's IP address, subnet mask, and default gateway. Temporarily change the computer's IP address to one that will allow it to communicate with the LD1500 - the LD1500's default IP is 10.0.0.188, so if you set the computer to 10.0.0.190, they will be able to communicate.
3. Open the computer's web browser and access the LD1500 - type its default IP address - 10.0.0.188 - into the browser's address bar and press enter.
4. You'll be prompted to enter a user name - ld1500 (case sensitive) and a password. By default, there is no password configured. Leave the password field blank and press the enter button.
5. Click the Configuration link and then the Network/IP link.



6. Change the IP address, subnet mask, and default route to those provided by your network administrator. Press the Submit Changes button. The LD1500 will save the new IP address and reboot.

Network/IP Configuration

Warning: Changing these parameters will cause the network interface to operate differently, only change parameters if you are sure the changes are correct.

MAC Address: 00:90:3B:F0:0D:01

IP Address:

Net Mask:

Def Route:

Values provided by your IT administrator

7. Reset your computer to its original IP address and subnet mask.
8. The computer and LD1500 are now configured to communicate over the network. Remove the crossover cable and properly connect the PC

and LD1500 to your network. Type the LD1500's new IP address in the computer's browser and verify you can access the unit.

9. If the LD1500 is not accessible:
 - Verify all cables are firmly connected to the correct ports.
 - Verify that you entered the correct (new) IP address for the LD1500.
 - Verify the LD1500's status LED is green.
10. If the LD1500 is still not accessible, consult the LD1500 User Guide for advanced configuration and troubleshooting information.

Test the System

If the LD1500 is already connected to a BMS or NMS, notify monitoring personnel before you begin testing the system.

1. Using a sketch or mechanical drawing of the facility, add the cable routing, connection points, and any accessories used. Record the distance marker when the cable changes direction and in between connectors.
2. The more details you show, the greater the benefit later when you are locating leaks and troubleshooting the system
3. To verify the LD1500's functionality, test three points within the length of sensing cable - one at the beginning, one in the middle of the length, and another near the end of the length of cable.
4. There are a variety of ways to simulate a leak.
 - Pour a small puddle of water on the cable while it rests on the floor.
 - Dunk the cable in a cup of water.
 - Soak a paper towel or rag and wrap it loosely around the cable. This is popular if the cable is used in pipe applications. Be careful to wrap the wet cloth loosely around the cable. Do not put pressure on the cable.

IMPORTANT - To avoid inaccurate readings, do not grip the cable with your hand.

5. Verify that the LD1500 reports the leaks within a few feet of their actual physical location. If the leaks are reported in the approximate location, but not precisely at the actual location of the leak, you may wish to calibrate the system. Consult the LD1500 User Guide to calibrate the cable's resistance, which will provide the most accurate distance readings.
6. Remove all simulated leak sources and return the system to its normal operating state.
7. To test the cable fault alarm, remove the end-of-line terminator (EOL) from the end of the sensing cable. This will cause a cable break, which should be reported appropriately by the LD1500. Once the cable break alarm is verified, reapply the EOL and ensure the system returns to its normal operating state.