

# Wi-LD Quick Start Guide



Thank you for purchasing a SeaHawk Wi-LD. Before you begin to install your device, consult [rletech.com](http://rletech.com) to ensure you're working with the most recent version of documentation available. If you need additional assistance, email our support staff - [support@rletech.com](mailto:support@rletech.com), or call us at 800.518.1519.

**Falcon**

v3.1  
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**RLE**  
Technologies

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## Supplies for Installation

**Included with the Wi-LD**  
Wi-LD transmitter  
15 foot (4.75m) leader cable  
End-of-line terminator (EOL)

**Not included with the Wi-LD**  
SD-Z, SD-Z1, or sensing cable  
Wall mounting hardware

## Mount the Transmitter

Wireless transmitters should be mounted off the floor. While the electronics are coated to provide a moisture barrier against condensation, the transmitter is not waterproof and submersion in water is not recommended.

The transmitter can be mounted with adhesive tape, adhesive-backed velcro or adhesive-backed magnetic tape, which works well if the transmitter will be mounted on a metallic surface and will not disturb the electronics. You'll need access to the information on the transmitter's label - the white sticker on the back of the unit. When you apply your tape, velcro, or magnet, be

careful not to cover the label. Make sure the side of the transmitter with the white RLE product label faces away from any metal surfaces.

Magnetic Tape



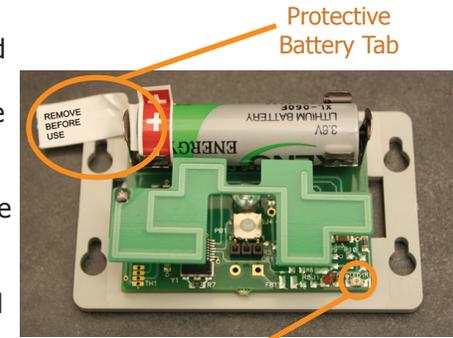
Serial Number

Use tape that is 0.5 inch (1.27cm) wide. When placed correctly, the tape allows the transmitter's back label to remain visible. The serial number on this label is unique to each transmitter, and you will need to refer to this number throughout the life span of the transmitter. If tape is placed over the label, the paper label will tear and the serial number will be unreadable.

## Battery

Each transmitter comes equipped with a 3.6V lithium battery, which can be replaced as needed. The transmitter is turned off when the product is shipped. Any time the transmitter is shipped, it should either be returned to this inactive state or placed in a shielded container to prevent interference that might cause shipping problems.

To activate the transmitter, remove the pull tab to engage the battery. Turn off the transmitter by re-inserting the pull tab or removing the battery.

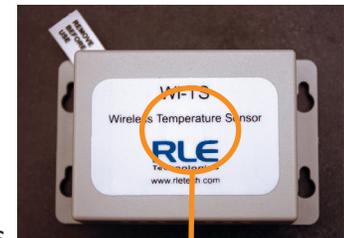


Heartbeat LED

If you have problems operating or communicating with your wireless transmitter, consult the Troubleshooting section of the Wi-MGR User Guide.

## Installation Mode Switch

The transmitter has an installation mode switch - a push button located in the center of the enclosure lid. When pressed, the transmitter immediately sends a data packet with a special mark introduced into its ID field. This indicates which transmitter is in service or being installed. The data is processed by the FDS-Wi's automatic discovery feature. For more information regarding the FDS-Wi and wireless sensor integration, refer to the FDS-Wi User Guide.



Push Button

## Wi-LD Configurations

A Wi-LD configuration couples the wireless transmitter with one of the following three options:

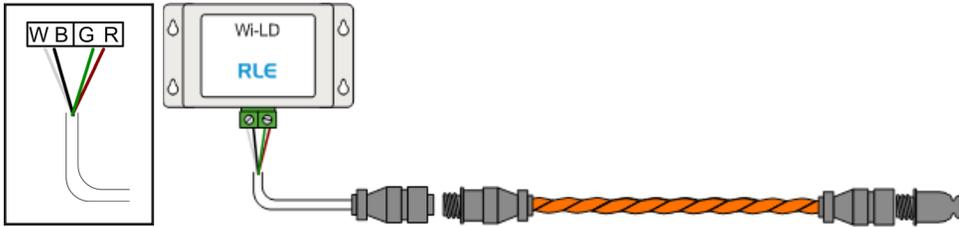
1. up to 50 feet (15.24m) of conductive fluid sensing cable
2. up to 35 feet (10.67m) of chemical sensing cable
3. one SD-Z spot detector
4. one SD-Z1 spot detector

If you are using either sensing cable or an SD-Z spot detector, you may use as much leader cable as you need to reach the area you plan to monitor.

## Connect Sensing Cable to the Wi-LD

Connecting up to 50 feet of sensing cable to the Wi-LD creates a single-zone leak detection solution.

1. Mount and activate the Wi-LD transmitter. Verify the heartbeat LED is blinking.
2. Leader cable is used to connect sensing cable to the transmitter, since sensing cable cannot directly connect to the transmitter. Leader cable comes with four open wires that allow it to be wired directly to the transmitter's terminal block. Since the leader cable has four wires and there are two terminal block pinouts on the Wi-LD, two wires need to be inserted into each pinout. The white and black wires both go into the left pinout. The red and green wires both go into the right pinout. Insert the leader cable wires into the pinouts and tighten the screws.



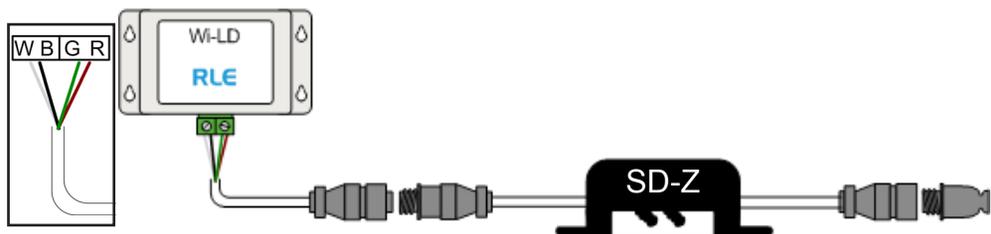
Make sure the end of the leader cable with the attached connector is firmly inserted into the Wi-LD's terminal block.

3. Unscrew the end-of-line terminator (EOL) from the end of the leader cable.
4. Attach the length of sensing cable to the leader cable.
5. Route the sensing cable according to your cable layout diagram. Secure the cable to the floor with J-clips or mastic as needed.
6. Secure the EOL to the unoccupied end of the sensing cable.

## Connect a Spot Detector to the Wi-LD

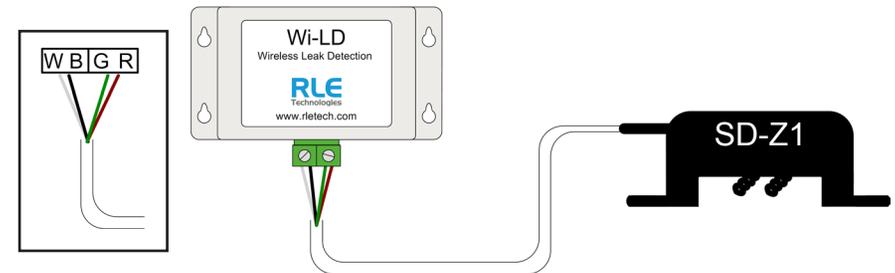
A spot detector is designed to detect and report the presence of liquids in a single area. Either an SD-Z or an SD-Z1 can be connected to a Wi-LD.

1. Mount and activate the Wi-LD transmitter. Verify the heartbeat LED is blinking.
2. Verify which type of spot detector you're using, since they each connect to the Wi-LD differently.
  - a. The SD-Z requires leader cable to connect to the Wi-LD transmitter.
    - Leader cable comes with four open wires that allow it to be wired directly to the transmitter's terminal block. Since the leader cable has four wires and there are two terminal block pinouts on the

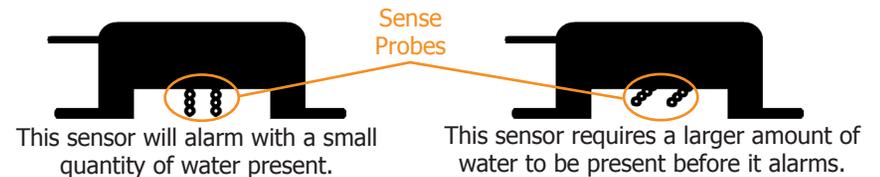


Wi-LD, two wires need to be inserted into each pinout. The white and black wires both go into the left pinout. The red and green wires both go into the right pinout. Insert the leader cable wires into the pinouts and tighten the screws.

- Make sure the end of the leader cable with the attached connector is firmly inserted into the terminal block.
  - Unscrew the end-of-line terminator (EOL) from the end of the leader cable.
  - Attach the SD-Z to the end of the leader cable.
  - Secure the EOL to the cable on the unoccupied end of the SD-Z.
- b. The SD-Z1 comes with a four-wire open lead that allows it to be wired directly to the transmitter's terminal block.
    - Since the lead has four wires and there are two terminal block pinouts on the Wi-LD, two wires need to be inserted into each pinout. The white and black wires both go into the left pinout. The red and green wires both go into the right pinout. Insert the wires into the pinouts and tighten the screws.



- Make sure the end of the leader cable with the attached connector is firmly inserted into the terminal block.
3. Determine the spot detector's location
  4. The angle of the sense probes can be adjusted to change the sensitivity of the SD. The closer the probes are to the floor, the smaller the quantity of liquid required to trigger the sensor. Adjust the sense probes to the desired height. Be sure the probes don't touch each other.



5. Ram set 6/32 threaded studs in the floor on 2.5" centers or apply mastic.
6. Place the spot detector over the studs or mastic and secure.