# LD1000

#### 1. LD1000 Installation

The LD1000 is a wall mounted device, and mounting hardware is supplied with every unit. Select a location for the LD1000 and place the two screw anchors in the wall 4.25 inches (107.9mm) apart. 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.) Remove the front cover from the LD1000 and hang the rear of the unit on the screws. Pull the unit toward the ground, so the screws nestle in the top of each keyhole and securely fasten the unit to the wall. Before reattaching the front of the unit, make all wiring connections and set all switches to the desired setting (see below for configurations).

## 2. Power Connections

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 (ie 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).

#### 3. Cable Installation

The LD1000 requires a separate leader cable (part #LC-KIT) that connects the sense cable to the unit and terminates the line of sensing cable properly. Connect the stripped end of the 15 foot (4.57m) leader cable to the terminal block labeled TB1 on the main board of the LD1000. From left to right, with the screws of the terminal block connector facing up, the leader cable wires should be connected 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. To do this, unscrew the end terminator from the end of the leader cable according to a cable layout diagram, if provided. Secure the end terminator on the unoccupied end of the leak detection cable.



## 4. Leak Sensitivity

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

## **Dipswitch Settings**

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

Off - Non-supervised (Factory Default)

**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)

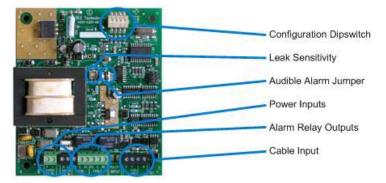
 $\mathbf{On}-\mathbf{Relay}$  One is a Summary Alarm and Relay Two is unused

**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

# 5. Audible Alarm Setting

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



#### Specifications

Power	24VAC/VDC (±10%) @ 300mA max.; requires power supply: WA-DC-24-ST (not included)
Inputs Water Leak Detection Cable Cable Input Maximum Length Detection Response Time	Compatible with SeaHawk SC Cable (not included) Requires SeaHawk LC-KIT: 15ft (4.57m) leader cable and EOL (LC-KIT not included) 1,000ft (305m) Configurable for 10sec or 2min, ±10%
Outputs Relay	1 Form C Leak Relay, 1 Form C Cable Fault Relay, configurable to 2 Summary Alarm Relays; 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched
Alarm Notification Audible Alarm	85DBA @ 2ft (0.6m); Selectable
Front Panel Interface LED Indicators Push Buttons	Power: 1 green (on/off); Cable Fault: 1 amber; Leak Detected: 1 red Quiet: 1; Reset: 1; Test: 1
Operating Environment Temperature Humidity Altitude	32° to 122°F (0° to 50°C) 5% to 95% RH, non-condensing 15,000ft (4,572m) max.
Storage Environment	-4° to 158°F (-20° to 70°C)
Dimensions	4.125"W x 5.5"H x 2.25"D (105mmW x 140mmH x 58mmD)
Weight	27.0 oz. (765.4g)
Mounting	Vertical wall mount
Certifications	CE; UL508A / CUL508A; FCC Part 15; RoHS compliant



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