

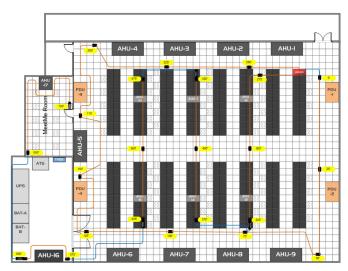




he LD2100 is a robust, web-accessible distance-read leak detection controller. When integrated with SeaHawk sensing cable or spot detectors, the LD2100 detects the presence of fluids and reports the distance to the leak. Within seconds, the distance to the leak is shown on the LED display. The physical location of the leak can then be determined by viewing the interactive map in the user interface or by cross referencing the distance on the display with a wall map.

The LD2100 has an audible alarm for local monitoring. In addition, it can easily integrate into existing building management, network management, and building automation systems, or be configured for direct alarm notification via email.

Common applications include data centers, clean rooms, telecommunication centers, and other critical areas. The LD2100 offers a reliable leak detection solution that mitigates potential damage, costly business outages, and downtime.



Uploaded reference map can be configured to display the location of the leak

## **Features**

- · Interactive leak detection map
- Quickly returns to normal status after sensing cable is wiped dry
- Adjustable leak, delay, and contamination thresholds
- · Thirty-two configurable zones
- SNMP, Modbus, BACnet, and summary relay output
- SMTP (email) alarm notification
- Audible alarm

## **Benefits**

- · Easily identify leak location
- Avoid costly damage and downtime with fast leak notification
- · Prevent nuisance & false alarms
- Allow users to label unique areas for quick identification
- · Simple integration with BMS, NMS & BAS
- · No factory calibration required
- · Identify cable disconnects & breaks
- Annunciate multiple, simultaneous, leaks when other distance-read controllers are integrated into the system



## LD2100 Specifications

**Power** Requires an isolated power supply.

24VDC Isolated @ 600mA max., 50/60Hz; requires RLE power supply PSWA-DC-24 (not included)

24VAC Isolated @ 600mA max., 50/60Hz; requires RLE power supply WA-AC-24 (not included)

100/120/230-240VAC @ 500mA max., 50/60Hz power supply; requires RLE LD-ENC enclosure (not included)

**Included Accessories** Leader cable and EQL terminator

Output

1 Form C summary relay, 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for latched or non-latched Relay

Inputs

Leak Detection Cable Compatible with SeaHawk sensing cables (not included)

Cable Input Requires 15ft (4.57m) leader cable and EOL terminator (included)

5,000ft (1524m) of conductive fluid sensing cable or 3,500ft (1067m) of chemical sensing cable Maximum Length

Minimum Length 35 ft. (10.67m)

 $\pm$  2ft (0.6m) +/- 0.5% of the cable length **Detection Accuracy Detection Repeatability** ± 2ft (0.6m) +/- 0.25% of the cable length

Detection Response Time 5-995sec, software adjustable in 5sec increments; ±2sec

**Communication Ports** 

Ethernet 10/100BaseT, full/half duplex RJ45 connector; 500VAC RMS isolation EIA-232 DB9 female connector; 9600 baud; 8 data bits, no parity, 1 stop bit

EIA-485 9600, 19200, 38400, or 56700 baud (selectable); Parity: none, even or odd, 8 data bits, 1 stop bit

**Protocols** 

TCP/IP, HTML, TFTP IPv4.0; webpages comply with Rehabilitation Act of 1973, sections 504 and 508, US Dept of Education (website accessibility for

computer users with disabilities)

V1: V2C MIB-2 compliant; NMS Manageable with Get, Set, Traps: V3 optional SMTP (Email) Supports Client Authentication (plain and login); compatible with ESMTP Servers

Modbus (EIA-485) Slave; RTU mode; Supports function codes 03, 04, 06 and 16 Master: RTU mode for integration with RLE's LD5200, LD2100,

and LD1500 products; Johnson N2

Modbus TCP/IP UDP/IP Modbus Slave; TCP/IP transmission protocol Modbus Master; TCP/IP transmission protocol for integration with RLE's LD2100

and LD1500 products

BACnet/IP ASHRAE STD 135-2004 Annex J

BACnet MS/TP FIA-485

**BACnet Alarms** Automatically reports to a single destination

Terminal Emulation (EIA-232) VT100 compatible

**Alarm Notification** 

Visual Alarm Green, alphanumeric, dot matrix LED display; bi-color status LED

Audible Alarm 70dBA @ 2ft (0.6m); re-sound configurable (disabled, 0-24 hours)

Email (Ethernet) 4 Email recipients; email sent on Alarm and Return to Normal; each alarm notifies all email recipients SNMP Traps (Ethernet) 4 Community Strings

**Logging Capabilities** 

**Event Log** 

Trend Log Cable current level once daily for the last 288 days

**Login Security** 

Web Browser Access (Ethernet) Web password Read Only; 1 Web password Read/Write

Front Panel Interface

Display Green alphanumeric dot matrix display

Push Buttons Test/Reset: 1 LED Indicators Power/Status: 1 bi-color (Power On: green; Alarm: red)

**Operating Environment** 

Temperature 32° to 122°F (0° to 50°C) Humidity 5% to 95% RH, non-condensing Altitude

15,000ft (4,572m) max.

Storage Environment -4° to 185°F (-20° to 85°C)

**Dimensions & Weight** 8"W x 4.25"H x 1.25"D (203mmW x 108mmH x 32mmD); 1.5 lbs. (680g)

Mounting Wall mountable; wall-mount enclosure LD-ENC or LD-ENC-NP (optional); rack mount bracket RMB (optional)

Certifications CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant



