



SeaHawk LD2100

The 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

Leak Detection

www.rletech.com

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 EOL terminator
Output Relay	1 Form C summary relay, 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for latched or non-latched
Inputs Leak Detection Cable Cable Input Maximum Length Minimum Length Detection Accuracy Detection Repeatability Detection Response Time	Compatible with SeaHawk sensing cables (not included) 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 35 ft. (10.67m) ± 2ft (0.6m) +/- 0.5% of the cable length ± 2ft (0.6m) +/- 0.25% of the cable length 5-995sec, software adjustable in 5sec increments; ±2sec
Communication Ports Ethernet EIA-232 EIA-485	10/100BaseT, full/half duplex RJ45 connector; 500VAC RMS isolation DB9 female connector; 9600 baud; 8 data bits, no parity, 1 stop bit 9600, 19200, 38400, or 56700 baud (selectable); Parity: none, even or odd, 8 data bits, 1 stop bit
Protocols TCP/IP, HTML, TFTP SNMP SMTP (Email) Modbus (EIA-485) Modbus TCP/IP UDP/IP BACnet/IP BACnet MS/TP BACnet Alarms Terminal Emulation (EIA-232)	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 Supports Client Authentication (plain and login); compatible with ESMTMP Servers 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 Slave; TCP/IP transmission protocol Modbus Master; TCP/IP transmission protocol for integration with RLE's LD2100 and LD1500 products ASHRAE STD 135-2004 Annex J EIA-485 Automatically reports to a single destination VT100 compatible
Alarm Notification Visual Alarm Audible Alarm Email (Ethernet) SNMP Traps (Ethernet)	Green, alphanumeric, dot matrix LED display; bi-color status LED 70dBA @ 2ft (0.6m); re-sound configurable (disabled, 0-24 hours) 4 Email recipients; email sent on Alarm and Return to Normal; each alarm notifies all email recipients 4 Community Strings
Logging Capabilities Event Log Trend Log	Last 500 events 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 Push Buttons LED Indicators	Green alphanumeric dot matrix display Test/Reset: 1 Power/Status: 1 bi-color (Power On: green; Alarm: red)
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 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

