

LD2100

Distance-Read Leak Detection Controller

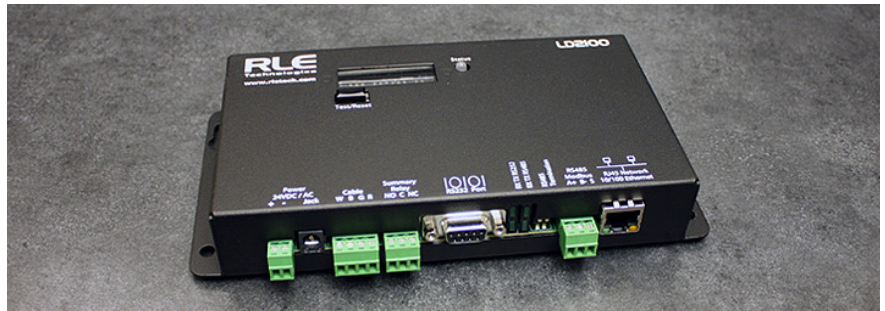
Monitor. Integrate. Alert. Peace of Mind.

Applications

- Data Centers
- Clean Rooms
- Hospitals
- Telecommunication Centers
- Museums & Libraries
- Warehouses

Key Features

- Monitor up to 5,000 feet of sensing cable and spot detectors
- Quickly returns to normal status after sensing cable is wiped dry
- Adjustable leak alarm sensitivity
- DeltaView technology displays leak location on a web accessible map
- Segment a facility into 32 virtual zones with descriptive labels for quick leak location
- Display the status of up to 32 SeaHawk controllers to annunciate multiple simultaneous leaks



Robust, Web Accessible Leak Detection

The LD2100 combines reliable, scalable leak detection with a suite of diverse alarm notification pathways and protects any critical facility from damaging leaks.

What Sets RLE's LD2100 Apart?

- **Distance-read leak detection** pinpoints the precise location of the leak.
- **A supervised system**, the controller continuously monitors the cable for leaks, breaks, and disconnects.
- **Robust alarm notification** via scrolling display, audible alarm, web interface, email, relay output, and protocol integration; notify users of leaks and faults in real time.
- **Seamless integration.** SNMP, BACnet, and Modbus outputs, plus a summary relay output, allow the LD2100 to deliver information directly to a larger BMS system.
- **Hosts its own web pages** so you can access alarms, interactive floor maps, and configuration details from any web browser with no additional fees or subscriptions.

LD2100 • Compatible with all RLE SeaHawk sensing cables and the SD-Z spot detector

Product Codes	
LD2100	Distance-read leak detection controller; LED display, web enabled. Includes LC-KIT for use with SC, SC-ZH, SD-Z. Requires PSWA-DC-24.
LD2100-M	Distance-read leak detection controller; LED display, web enabled. Includes LC-KIT-M for use with SC-C. Requires PSWA-DC-24.
PSWA-DC-24	Power adapter; isolated 100-240VAC to 24VDC, 50/60Hz; barrel connector; includes type A blade.
LD-ENC	Wall mount enclosure with backplate and power supply; 12.5in x 10in x 3.5in. Requires hardwired 110/120/230-240VAC.
LD-ENC-NP	Wall mount enclosure with backplate; 8in x 10in x 2in.
LD2100-RMB	Rack mount bracket for LD2100; 19in/482mm.
Technical Specifications	
Power	Requires an isolated power supply. 24VDC Isolated @ 600mA max., 50/60Hz; requires RLE power supply PSWA-DC-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
Relay Output	1 Form C summary relay, 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for latched or non-latched
Sensing Cable Cable Input Maximum Length Minimum Length Detection Accuracy Detection Repeatability Detection Response Time	Compatible with all SeaHawk sensing cables and the SD-Z spot detector Requires 15ft (4.57m) leader cable and EOL terminator (included) 5,000ft (1524m) of sensing cable 35ft (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; web pages 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 Supports Client Authentication (plain and login); compatible with ESMTP 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 Visible 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
Web Interface Login Security	1 password Read Only; 1 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); 1.5lbs. (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

