

LD1000

Leak Detection

LEAK DETECTION CONTROLLER

01

APPLICATIONS:

- Facilities where the sensing cable or spot detector is exposed or leaks can easily be located
 - Areas that require a more durable, robust, industrial single zone leak detection controller
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02

KEY FEATURES:

- Monitor up to 1,000 feet of sensing cable and spot detectors
 - Adjustable leak alarm sensitivity
 - Quickly returns to normal status after sensing cable is wiped dry
 - Two relay outputs, configurable as supervised or non-supervised and as leak & fault or summary alarms
 - Durable NEMA 1 enclosure
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03

WHAT SETS RLE'S LD1000 APART?

- **Zone leak detection** system alarms when water comes into contact with the attached sensing cable or spot detector. It is the right fit for spaces where sensing cables and spot detectors are visible so leaks can easily be located.
- **Local alarm annunciation and Modbus integration.** Onboard audible and visible alarms and a Modbus output allow the LD1000 to notify users of leaks and faults in real time and deliver that information directly to a LD5200, LD2100, or a larger BMS system.
- **A supervised system,** the controller continuously monitors the cable for leaks, breaks, and disconnects and sends an alarm notification when one is detected.

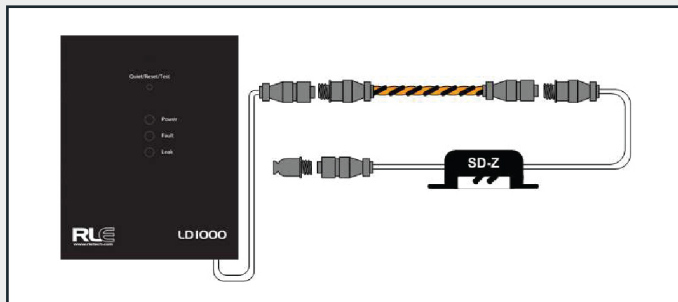
04 **1,000 FEET OF DURABLE, PATENTED LEAK DETECTION:** RLE’s most rugged single zone controller, the LD1000 provides reliable leak detection, preventing facility and equipment damage, costly business outages, and downtime.



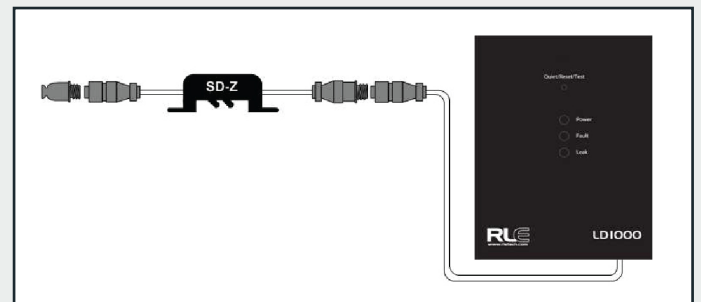
05 LD1000: Compatible with all RLE SeaHawk sensing cables and the SD-Z and SD-Z1 spot detectors

Product Codes	
LD1000	Single zone leak detection controller; selectable audible. Includes LC-KIT for use with SC, SC-ZH, SD-Z, SD-Z1. AC/DC - requires PSWA-DC-24-ST or WA-AC-24-ST
LD1000-M	Single zone leak detection controller; selectable audible. Includes LC-KIT-M for use with SC-C. AC/DC - requires PSWA-DC-24-ST or WA-AC-24-ST
PSWA-DC-24-ST	Power adapter; isolated 100-240VAC to 24VDC, 50/60Hz; stripped and tinned ends; includes type A blade.
WA-AC-24-ST	Power adapter; 120VAC to 24VAC; stripped ends; type A plug.

LD1000 connected to an SD-Z and sensing cable



Connect an SD-Z1 to an LD1000



06

Technical Specifications	
Power	Requires an isolated power supply for DC operation. 24VDC ($\pm 10\%$) Isolated @ 300mA max.; requires RLE power supply PSWA-DC-24-ST (not included) 24VAC ($\pm 10\%$) @ 300mA max.; requires RLE power supply WA-AC-24-ST (not included)
Power	Leader cable and EOL terminator
Sensing Cable Cable Input Maximum Length Detection Response Time	Compatible with all SeaHawk sensing cables and the SD-Z and SD-Z1 spot detectors Requires SeaHawk LC-Kit: 15ft (4.57m) leader cable and EOL terminator (included) Up to 1,000ft (305m) of sensing cable Configurable for 10sec or 2min, $\pm 10\%$, when used with conductive fluid or chemical sensing cables
Relay Output	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
Communication Port EIA-485	9600 or 19,200 baud; Parity none; 8 data bits, 1 stop bit
Protocols EIA-485	Modbus Server; RTU Mode; Supports function codes 03, 04, and 06
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 1: Quiet, Reset, Test
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 oz (765g)
Mounting	Wall mount
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; RoHS compliant