

SEAHAWK LEAK DETECTION



When integrated with SeaHawk Water Leak Detection Cable (SC) and/or spot detectors (SD-Z), the LD5100 detects and reports the presence of any conductive fluid. The LD5100 pinpoints the location of a leak when a conductive fluid comes in contact with SC or SD-Zs. Within seconds, the system's alarm sounds and the distance to the leak is then shown on the liquid crystal display (LCD). The physical location of the leak can then be determined by cross-referencing the distance displayed with a cable reference map of your site.

A distance read system, such as the LD5100, is ideal leak detection in areas where the sensing cable may not be visible. Common applications of this system include data centers (under raised floors), clean rooms, telecommunication centers and other critical areas as it offers reliable protection from potential water damage, costly business outages, and downtime.

Notably, the unique design and user configurability of the LD5100 helps eliminate false alarms that may occur with other cable-based leak detection systems.

SC is available in standard and custom lengths with pre-installed mating end connectors. Mating end connectors simplify installation and expansion of the system. The LD5100 monitors up to 5,000 feet (1,524m) of SC.

Key Features & Benefits

- Adjustable leak, delay and contamination alarm thresholds to help prevent false alarms
- 12 configurable virtual zones
- Single person cable mapping to simplify installation and setup
- Simple user interface with 160x160 Graphic LCD backlit display
- Dual Modbus (RS-485) and 4-20mA analog output for simple integration with other systems
- RS-232 port allows configuration with PC
- Dual Form C output relays for both fluid detected/leak and cable break
- No calibration required
- Event log stores 512 date and time stamped alarms
- 288 day trend data log shows leakage current on cable every 24 hours
- RoHS compliant

Specifications

Power	100/120/230-240VAC@ 500mA max, 50/60Hz
Inputs	
Water Leak Detection Cable	Compatible with SeaHawk SC Cable
Cable Input	Requires SeaHawk LC-KIT (15ft [4.57m] leader cable and EOL); LC-Kit not supplied
Maximum Length	5,000ft (1,524m)
Detection Accuracy	± 2ft (0.6m) +/- 0.5% of the cable length
Detection Repeatability	± 2ft (0.6m) +/- 0.25% of the cable length
Detection Response Time	5-990sec, software adjustable in 5sec increments; ±2sec
Outputs	
Analog	4-20mA Loop Powered, 18-36VDC, R _L = 500Ω max.
Relay	2 Form C Leak Relays, 2 Form C Cable Break Relays; 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched
Communications Ports	
RS-232	9600 baud; No parity, 8 data bits, 1 stop bit
RS-485	1200, 2400, 9600 or 19200 baud (selectable); No parity, 8 data bits, 1 stop bit
Protocols	
Terminal Emulation (RS-232)	VT100 compatible
Modbus (RS-485)	Slave; RTU Mode; Supports function codes 03, 04, 06 and 16
Alarm Notification	
Audible Alarm	85DBA @ 2ft (0.6m); re-sound 0-999min
Logging Capabilities	
Event Log	Last 512 events
Trend Log	Cable current level every day, for the last 288 days
Login Security	
Terminal Emulation Access	None
Display Access	1 Administrator (password for configuration, no password required to view panel status)
Front Panel Interface	
Display	Graphic, 160x160 pixel resolution backlit LCD with contrast adjustment
Push Buttons	Right, left, up, down, enter
LED Indicators	1 bi-color Power/Status (green=power on, red=alarm)
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 158°F (-20° to 70°C)
Dimensions	10.0"W x 12.6"H x 3.25"D (254mmW x 320mmH x 82.5mmD)
Weight	10 lbs. (4.53kg)
Mounting	Wall mount enclosure
Certifications	CE; ETL listed: conforms to UL STD 61010-1, EN STD 61010-1; certified to CSA C22.2 STD NO. 61010-1; RoHS compliant



FORT COLLINS CO
970 484-6510
970 484-6650 FAX
WWW.RLETECH.COM

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