




# SeaHawk LD5100

**W**hen integrated with SeaHawk Water Leak Detection Cable (sensing cable) and/or Spot Detectors, the LD5100 detects the presence of any conductive fluid and reports the distance to the location of the leak. Within seconds, the system's alarm sounds and the distance to the leak is shown on the liquid crystal display (LCD). The physical location of the leak can then be determined by cross-referencing the distance displayed on the LCD with a cable reference map.

The LD5100 is ideal for applications that require a stand alone system that may also be easily integrated into an alarm monitoring and notification system.

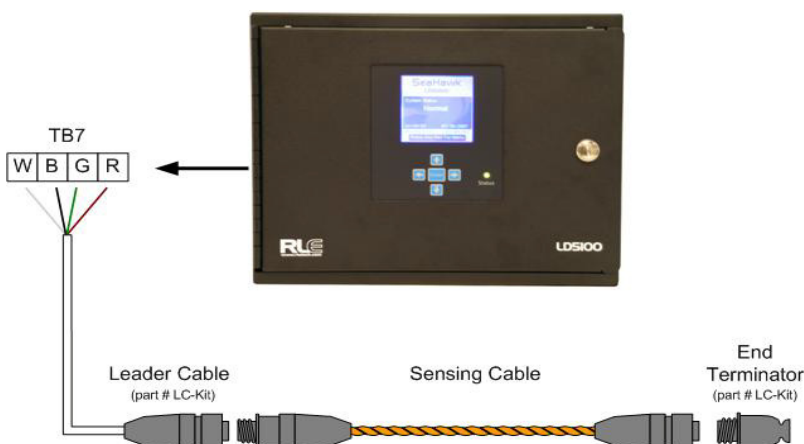
The LD5100 can accommodate a continuous run of up to 5,000 feet (1524m) of sensing cable and is ideal for leak detection in areas where the sensing cable may not be visible. Common applications of this system include data centers (under raised floors), clean rooms, telecommunication centers and other critical areas. The LD5100 offers a reliable leak detection solution that mitigates potential water damage, costly business outages, and downtime.

## Features

- Adjustable leak, delay, and contamination alarm thresholds
- Twelve configurable virtual zones
- Modbus integration with the LD5100, LD2100, and LD1500
- 4-20mA, dual Modbus ports and leak /fault relay outputs
- Single-person cable mapping
- LCD and five-button keypad
- Internal, wide range power supply
- Supervised system
- Internal logging
- Eleven physical zones

## Benefits

- Ready for next alarm—no need to wait for sensing cable to dry
- Helps prevent nuisance and false alarms
- Allows users to label unique areas
- Can be used to identify simultaneous leaks
- Simple integration with alarm monitoring systems
- Local display and configuration
- Accommodates global power applications
- Identifies cable disconnects and breaks
- Detailed alarm histories with time and date
- Annunciates multiple, simultaneous leaks when other Distant Read Panels are integrated into the system



Basic installation of LD5100, leader cable, sensing cable, and EOL terminator

# Leak Detection

# LD5100 Specifications

<b>Power</b>	100-240VAC@ 500mA max, 50/60Hz power supply
<b>Included Accessories</b>	Leader cable and EOL terminator (LC-KIT)
<b>Optional Accessories</b>	Caution tags (SC-T), framed reference map (FM1114), leak detection cable (sensing cable; SC-xx), non-sensing cable (NSC-xx), spot detector (SD-Z), X-Connector for cable branching (X-CON), weighted cable connector (WCCS-50), J-Clips for securing cable (JC-xx)
<b>Inputs</b>	
Water Leak Detection Cable	Compatible with SeaHawk Sensing Cable (not included)
Cable Input	Requires SeaHawk LC-Kit: 15ft (4.57m) leader cable and EOL (LC-Kit included)
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
<b>Outputs</b>	
Analog	4-20mA Loop Powered, 18-36VDC, RL = 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
<b>Communication Ports</b>	
EIA-232	9600 baud; No parity, 8 data bits, 1 stop bit
EIA-485 (Port 1, Port 2)	1200, 2400, 9600 or 19200 baud (selectable); No parity, 8 data bits, 1 stop bit
<b>Protocols</b>	
Modbus (EIA-485)	Slave; RTU mode; Supports function codes 03, 04, 06 and 12 Master; RTU mode for integration with RLE's LD5100, LD2100 & LD1500 products only
Terminal Emulation (EIA-232)	VT100 compatible
<b>Alarm Notification</b>	
Audible Alarm	85DBA @ 2ft (0.6m); re-sound 0-999min
Visual Alarm	Alarm indicated on LCD panel and by LED color red
<b>Logging Capabilities</b>	
Event Log	Last 500 events
Trend Log	Cable current level every day, for the last 288 days
<b>Login Security</b>	
Display Access	1 Administrator (password for configuration, no password required to view panel status)
Terminal Emulation Access	None
<b>Front Panel Interface</b>	
Display	Graphic, 160x160 pixel resolution backlit LCD, adjustable contrast
Push Buttons	Right, left, up, down, enter
LED Indicators	Power/Status: 1 bi-color (green=power on, red=alarm) Contamination: red
<b>Operating Environment</b>	
Temperature	32° to 122°F (0° to 50°C)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
<b>Storage Environment</b>	-4° to 158°F (-20° to 70°C)
<b>Dimensions</b>	12.5"W x 10"H x 3.25"D (318mmW x 254mmH x 82.5mmD)
<b>Weight</b>	10 lbs. (4.53kg)
<b>Mounting</b>	Wall mount enclosure
<b>Certifications</b>	CE; ETL listed: conforms to UL STD 61010-1, EN STD 61010-1; certified to CSA C22.2 STD NO. 61010-1; RoHS compliant

