



SeaHawk LD5000

Together with our SeaHawk Water Leak Detection Cable, the SeaHawk LD5000 detects and reports the presence and exact location of water and other conductive fluids. When any conductive fluid comes in contact with our patented cable, the LD5000 quickly pinpoints the location of the leak. Within seconds, the system's alarm sounds and the distance to the leak is shown on the LD5000's four-line liquid crystal display. The physical location of the leak can then be determined by cross-referencing the distance displayed with a cable route map of your site.



SeaHawk



The unique design of the SeaHawk LD5000 helps eliminate high humidity false alarms that occur with other manufacturer's water leak detection products. The SeaHawk LD5000 is ideal for critical spaces such as data centers, clean rooms, telecommunication centers and record storage areas as it offers protection from potential water damage and/or costly business outages and downtime.

SeaHawk Water Leak Detection Cable (sold separately) is available in standard lengths with pre-installed mating end connectors. These connectors make installation quick and easy as cables can be linked end-to-end whenever extra length is needed. The cable is also available in custom lengths. The SeaHawk LD5000 can monitor up to 5,000' (1500m) of SeaHawk Water Leak Detection Cable.

LD5000 Features

- Adjustable leak and contamination alarm thresholds to prevent false alarms due to high humidity
- Single person cable mapping to simplify installation and setup
- Simple user interface with 4x20 LCD
- RS-232 port allows configuration with PC
- 4-20mA output interfaces with external building management systems (BMS)
- Dual dry contact outputs for both fluid detected/leak and cable break (total of 4 dry contact outputs)
- Automatic and manual cable calibration
- Event log stores 512 date and time stamped alarms
- 288 day trend data log shows leakage current on cable every 24 hours

LD5000 Technical Specifications

Additional Features/Benefits

- Four relay outputs (Form C) configurable for supervised or non-supervised operation, latched or non-latched.
- Built-in audible alarm; additional connection for customer provided audible or visible alarm indicator.
- Modbus (RS-485) and 4-20mA analog output for simple integration with other systems.

Installation & Setup

- Mount the control panel to the wall & provide power.
- Install the SeaHawk Water Leak Detection Cable & connect it to the LD5000's leader cable.
- Auto calibrate the system from the display.
- Map the cable length points.

As with all RLE Technologies' products, customer support and installation assistance is available. Just call RLE at 1-800-518-1519. We're glad to be of service.

Power Inputs

85-264VAC @ 500mA max, 50/60Hz

Water Leak Detection Cable

- Maximum Length**
- Detection Accuracy**
- Detection Repeatability**
- Detection Response Time**

Supplied with 15' (4.57m) leader cable
5,000' (1,524m)
± 2ft (0.6m)+ 0.5% of the cable length
± 2ft (0.6m) + 0.25% of the cable length
20-3600sec, software adjustable in 10sec increments;
±2sec

Outputs

Analog Relay

4-20mA Loop Powered, 18-36VDC, $R_L = 500\Omega$ max.
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

1200, 2400, 9600 or 19200 baud (selectable);
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) Modbus (RS-485)

VT100 compatible
Slave; RTU Mode; Supports function codes 03, 04, 06 and 16

Alarm Notification

Audible Alarm

85DBA @ 2' (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

1 Administrator (password for configuration)

Display Access

1 Administrator (password for configuration, no password required to view panel status)

Front Panel Interface

Display

Text, 4x20 character backlit LCD, 0.60" (15.24mm) character height, contrast adjustment

Push Buttons

+, -, right, left, enter, escape

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

10,000' (3,048 meters) max.

Storage Environment

Dimensions

-4° to 158°F (-20° to 70°C)

12.0"W x 14.0"H x 4.0"D

(305mmW x 356mmH x 101mmD)

Weight

12 lbs. (5.45kg)

Mounting

Vertical wall mount or Vertical flush mount (kit optional)

Certifications

CE; ETL listed: conforms to UL STD 61010A-1, EN STD 61010-1; CAN/CSA C22.2 STD NO. 1010-02



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Warranty

Products manufactured by RLE Technologies are warranted to be free from defects in materials and workmanship for one year after the date of shipment. Such warranty is limited to parts and labor to repair or replace such RLE products that are found to be defective. To ensure warranty coverage, all installation and other instructions must be followed properly. All installation and setup work must be performed by qualified personnel who are knowledgeable of the equipment and aware of appropriate safety, wiring, and other applicable practices.

Specifications are subject to change without notice.