Seahawk leak detection

The SeaHawk LD2000 is the only advanced control panel on the market with both distance read technology and Ethernet capability. Designed to be used with SeaHawk Water Leak Detection Cable (SC), the LD2000 detects and reports the presence of any conductive fluid. RLE distance read systems are ideal in areas where the sensing cable may not be visible. The most common applications include data centers (under raised floors), clean rooms, telecommunication centers and other critical areas.

As a supervised system, the LD2000 continually monitors the cable for continuity. When a conductive fluid comes in contact with the SC or SeaHawk spot detectors (SD-Z), the system quickly pinpoints the location of the leak and shows the distance to the leak on the display LED. By cross-referencing the distance displayed with a cable reference map of your site, users can easily determine the physical location of the leak.

Alarm notification is via user-configurable SNMP, SMTP (email), Modbus (RS485 or TCP/IP), BACnet (IP), or Form C output relay. The LD2000 provides a web page (HTML) interface to allow users to get updates on conditions via the Internet or local area network. Notably, the LD2000 can be easily integrated into existing Building Management Systems (BMS) and Network Management Systems (NMS).

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 recommended maximum length of SC connected to a LD2000 is 2,000 feet (609m).

Key Features & Benefits

- Direct alarm notification via email, cell phone or other wireless devices
- Adjustable leak, delay and contamination alarm thresholds to help prevent false alarms
- HTML user interface
- Simple integration with existing monitoring systems: SMTP, SNMP, Modbus, BACnet
- Compact, light-weight, and DIN rail mountable
- Network (RJ-45) and RS-232 configuration with PC
- Event log stores 100 date and time stamped alarms
- Single person cable mapping and no calibration required for simple installation
- 8 Virtual zones
- RoHS compliant

Specifications

Power	24VAC Isolated @ 600mA max, 50/60Hz, 24VDC@ 600mA max; requires power supply; power supply not supplied (part #WA-DC-24-ST)

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
Recommended Maximum Length	2,000ft (609m)
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

Relay	Summary Relay; 1A @ 24VDC, 0.5A resistive @ 120VAC

Communications Ports

Ethernet	10/100 BaseT, RJ45 connector; 500VAC RMS isolation
RS-232	DB9 female connector; 9600 baud; No parity, 8 data bits, 1 stop bit
RS-485	1200, 2400, 9600 or 19200 baud (selectable); Parity: none, even or odd, 8 data bits, 1 stop bit

Protocols

TCP/IP, HTML, TFTP	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)
SNMP	V1: V2C MIB-2 compliant; NMS Manageable with Get, Set, Traps
SMTP (Email)	Supports Client Authentication (plain and login); compatible with ESMTP Servers
Modbus (RS-485)	Slave; RTU mode; Supports function codes 03, 04, 06 and 16
Modbus TCP/IP	Modbus Slave; TCP/IP transmission protocol
BACNet/IP	Conformance Level 1
Terminal Emulation (RS-232)	VT100 compatible

Alarm Notification

Visual Alarm	Red, 4-digit; 7 Segment LED Display; Bi-color status LED
Email (Ethernet, Modem PPP)	4 email recipients; email sent on Alarm and Return to Normal; each Alarm can notify any or all of the email recipients
SNMP Traps (Ethernet)	4 Community Strings

Logging Capabilities

Event Log	Last 100 events
Trend Log	Cable current level every day, for the last 288 days

Login Security

Web Browser Access (Ethernet)	1 Web password Read Only; 1 Web password Read/Write
Terminal Emulation Access	None

Front Panel Interface

Display	Red, 4-digit; 7 Segment LED Display; Bi-color status LED
Push Buttons	1 Test/Rest
LED Indicators	1 tri-color Power/Status (green=power on, red=alarm, yellow=cable fault)

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 185°F (-20° to 85°C)
Dimensions	8.0"W x 4.25"H x 1.25"D (203mmW x 108mmH x 31.75mmD)
Weight	1.5 lbs. (680g)
Mounting	Vertical wall mount, or optional din rail mount
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

RoHS COMPLIANT

RLE Technologies

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

SeaHawk