SEAHAWK LEAK DETECTION

As RLE's most cost effective distance read leak detection panel, the LD1500 is designed for simple integration into an existing monitoring system. When integrated with SeaHawk Water Leak Detection Cable (SC) and/or zone spot detectors (SD-Z), the LD1500 detects the presence of any conductive fluid and identifies the distance to the leak. Within seconds, the distance to the leak can be communicated via various protocols to alarm monitoring and/or notification systems. The physical location of the leak can then be determined by cross referencing the distance with a cable reference map (FM1114).

Multiple LD1500s can connect to RLE Technologies' LD2000 and LD5100, allowing the LD2000 or LD5100 to indentify and annunciate multiple, simultaneous, leaks.

The LD1500 can accommodate a continuous run of up to 1500 feet (457m) of SC 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 LD1500 offers a reliable leak detection solution that mitigates potential water damage, costly business outages, and downtime.

Features

- Cost effective
- HTML interface
- Quick return to normal status after SC is wiped dry
- Adjustable leak, delay, & contamination alarm threshold
- Modbus integration with LD5100 & LD2000
- SNMP, Modbus, and BACnet communications
- Single person mapping
- Self-calibrating
- Supervised system

Benefits

- Quality leak detection at a low cost
- View alarms and configuration with a Web browser
- Ready for next alarm—no need to wait for SC to dry
- Helps prevent nuisance & false alarms
- Multiple units can be used to identify simultaneous leaks
- Integrates with BMS &NMS
- Simplifies the setup
- No factory calibration required
- Identifies cable disconnects & breaks

LD1500

Specifications

Power	
LD1500	24VAC Isolated@ 600mA max., 50/60Hz; requires power supply:WA-AC-24 (not included) 24VDC@ 600mA max., 50/60Hz; requires power supply: WA-DC-24-ST (not included) 100/120/230-240VAC@ 500mA max., 50/60Hz power supply; included in the LD-ENC optional enclosure
Inputs	
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	1,500ft (457.2m)
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	5-995sec, software adjustable in 5sec increments; ±2sec
Communications Ports	
Ethernet	10/100BASE-T, RJ45 connector; 500VAC RMS isolation
EIA-232	DB9 female connector; 9600 baud; 8 data bits, no parity, 1 stop bit
EIA-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; webpages 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
Modbus (EIA-485)	Slave; RTU mode; Supports function codes 03, 04, 06 and 16 Master: RTU mode for integration with RLE's LD5100, LD2000 & LD1500 products only
Modbus TCP/IP UDP/IP	Modbus Slave; TCP/IP transmission protocol Modbus Master; TCP/IP transmission protocol for integration with RLE's LD5100, LD2000 & LD1500 products only
BACnet/IP	ASHRAE STD 135-2004 Annex J
BACnet MS/TP	EIA-485
BACnet Alarms	Automatically reports to a single destination
Terminal Emulation (EIA-232)	VT100 compatible
Alarm Notification	
Visual Alarm	Bi-color status LED
SNMP Traps/Informs (Ethernet)	2 Community Strings
Logging Capabilities	
Event Log	Last 10 events
Login Security	
Web Browser Access (Ethernet)	1 Web password Read Only; 1 Web password Read/Write
Terminal Emulation Access	None
LD1500 Front Panel Interface	
LED Indicators	Power/Status: 1 bi-color (Power On: green; Alarm / Cable Fault / Cable Contamination: red)
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	
LD1500	7"W x 3.62"H x 1.25"D (178mmW x 92mmH x 32mmD)
Weight	
LD1500	1.5 lbs. (680g)
Mounting	
LD1500	Wall mountable; Rack mount kit RMK-DR (optional); Wall mount enclosure LD-ENC (optional)
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

SeaHawk

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