




# SeaHawk LD5200

Protecting a facility from damaging leaks is an important part of any disaster mitigation plan. RLE Technologies' LD5200 pairs superior leak detection technology with an easy-to-use interface. This integration helps users to quickly and efficiently establish a distance-read leak detection system that reliably protects valuable assets.

RLE Technologies designed the LD5200 with the end-user in mind. All basic device functionality is available from the LCD touch screen — configure, monitor, locate, and acknowledge leaks from the front panel of the LD5200. This allows the LD5200 to be used as a stand-alone device without sacrificing any leak detection or alarm notification functionality.

Once the LD5200 is connected to a network, a robust web interface expands the capabilities of the unit. Use the web interface's interactive facility mapping tool to create an interactive overlay that displays on top of an uploaded floor map image. When a leak is detected, the LD5200 displays its location on the map, making leak location quick and easy.

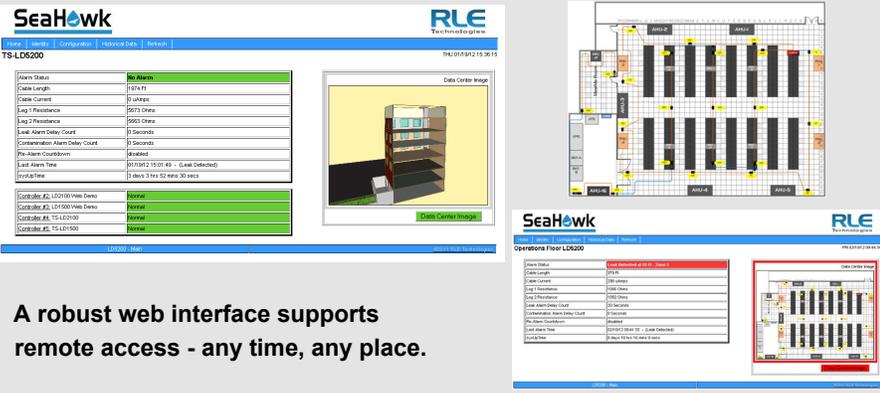
While the LD5200 can function as a stand-alone device, it also has powerful integration capabilities. Multiple communication protocols allow the LD5200 to act as a master for a wide variety of related slave devices. The highly scalable LD5200 can provide leak detection and notification for an entire building through one IP address. It can also seamlessly integrate into a BMS or NMS. The LD5200 is ideal for applications that require a stand-alone system that can also be integrated into a larger centralized monitoring system.

## Features

- Monitor up to 10,000 feet of conductive fluid sensing cable or 7,000 feet of chemical sensing cable
- Act as a master device for up to 127 RLE leak detection controllers
- Configure up to 32 virtual zones
- Send direct email alarm notification
- Access the device remotely via the robust web interface
- Create up to 10 interactive leak detection reference maps
- Log an extensive variety of events and alarms

## Benefits

- Stand-alone or integrated leak detection and notification
- Pinpoint leaks quickly and accurately
- Manage an entire building's leak detection system through one IP address
- Annunciate multiple, simultaneous leaks when other RLE distance-read controllers are integrated into the system
- Access the device remotely - any time, any place
- Detailed alarm history with time and date stamp assists in troubleshooting



**A robust web interface supports remote access - any time, any place.**

# Leak Detection

www.rletech.com

A touch screen LCD supports all basic device functionality.



RLE Technologies



Status: Leak Detected at 51 Ft  
02/10/12 09:42:04 Pending Acks: 18  
LD5200 V2.1.4 ©2011 RLE Technologies

- Silence
- Alarms
- Status
- Setup

LD5200 Controller Status	
Alarm Status	Leak Detected at 51 Ft Zone 2
Cable Length	379 Ft
Cable Current	298 uA
Leg 1 Resistance	1087 Ohms
Leg 2 Resistance	1093 Ohms
Leak Alarm Delay	20 Seconds
Contamination Alarm Delay	0 Seconds
Re-Alarm Countdown	disabled
Last Alarm Time	02/10/12 09:50:50
sysUpTime	0 days 19 hrs 17 mins 48 secs

- System
- Return

Alarm History - Page 1 of 45 Pending Acks: 16	
02/10/12 09:50:50	Leak Detected at 51 Ft VZone2: Zone 2
02/10/12 09:50:10	No Leak Main Controller/Zone
02/10/12 09:41:55	Leak Detected at 51 Ft VZone2: Zone 2
02/10/12 09:40:27	No Contamination
02/10/12 09:38:28	Contamination at 53 Ft, Leakage=92uA
02/09/12 15:26:34	CPU Reset / power up
02/08/12 11:20:46	CPU Reset / power up
02/08/12 08:40:40	Cable Ok

- Next
- Ack
- Return

## LD5200 Specifications

<b>Power</b>	Requires a dedicated circuit within close proximity, marked as the disconnecting device for the LD5200 100-240VAC @ 500mA max, 50/60Hz; dedicated circuit required
<b>Included Accessories</b>	Leader cable and EOL terminator
<b>Inputs</b>	<p>Sensing Cable Compatible with all SeaHawk sensing cables (not included) One Cable Input Requires 15ft (4.57m) leader cable and EOL (included) Maximum Length Up to 10,000ft (3048m) of conductive fluid sensing cable or 7,000ft (2134m) of chemical sensing cable Minimum Length 35ft (10.67m) 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 5-990 seconds, ±2 seconds; software adjustable in 5 second increments</p>
<b>Outputs</b>	<p>Analog 4-20mA Loop Powered, 18-36VDC, R<sub>L</sub> = 500Ω max. Relays 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 Maintenance Relay 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched</p>
<b>Communication Ports</b>	<p>EIA-485 (Port 1, Port 2, Port 3) 9600, 19200, or 38400 baud (selectable); No parity, 8 data bits, 1 stop bit EIA-232 9600 baud; No parity, 8 data bits, 1 stop bit RJ-45 10/100BaseT Ethernet port (TCP/IP)</p>
<b>Protocols</b>	<p>EIA-485 Modbus RTU, Master &amp; Slave; BACnet MS/TP; N2, Slave EIA-232 Terminal emulation, VT100 compatible RJ-45 Ethernet, TCP/IP; Modbus/TCP/UDP, Master &amp; Slave; SNMP V1, V2, V3, NTP, SMTP, DNS; BACnet/IP</p>
<b>Alarm Notification</b>	<p>Audible Alarm 85dB @ 2ft (0.6m); re-sound 0-999min. Visible Alarm Alarm indicated on LCD touch screen and through web interface</p>
<b>Logging Capabilities</b>	<p>Event Log Logs are downloadable to .txt file Trend Log Last 1,024 events Cable current level every day, for the last 365 days</p>
<b>Login Security</b>	<p>LCD Touch Screen No password required to view controller status and data. Administrator password limits access to configuration options. Web Interface Username and password can be configured.</p>
<b>Front Panel Interface</b>	<p>Display 480 x 272 pixel color backlit LCD touch screen; 95.04mm x 53.85mm</p>
<b>Operating Environment</b>	<p>Temperature 32° to 122°F (0° to 50°C) Humidity 5% to 95% RH, non-condensing Altitude 15,000ft (4.572m) max.</p>
<b>Storage Environment</b>	-4° to 158°F (-20° to 70°C)
<b>Enclosure</b>	<p>NEMA Type 1 Dimensions 12.5"W x 10"H x 3.25"D (318mmW x 254mmH x 83mmD) Weight 8.2lbs. (3.7kg) Mounting Wall mount</p>
<b>Certifications</b>	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

