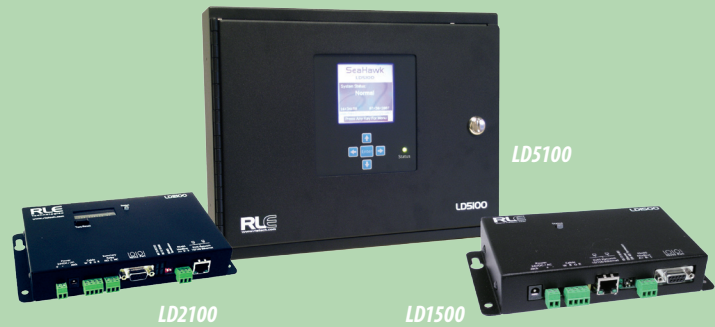


# Distance Read Panel

## Helps Eliminate High Humidity False Alarms



### DESCRIPTION

Together with our SC, SC-C, or SC-H sensing cable, the LD1500, LD2100 and LD5100 panels detect and report the presence and exact location of the cable-specific fluid. When the fluid comes in contact with the patented cable, the monitoring panel quickly pinpoints the location of the leak, triggering an alarm and displaying the location.

### SPECIFICATIONS

**Input Power** **LD1500/LD2100:** 24VAC@600mA max., 50/60 Hz; 24VDC@600mA max.; **LD5100:** 100/120/230-240VAC@500mA max., 50/60 Hz

<b>Inputs:</b>	
<b>Water Leak Detection Cable</b>	Requires 15 ft. (4.5 m) leader cable kit (LC-KIT or LC-KIT-M)
<b>Maximum Length</b>	<b>LD1500:</b> 1500 ft. (457 m); <b>LD2100:</b> 2,000 ft. (609 m); <b>LD5100:</b> 5,000 ft. (1,524 m)
<b>Detection Accuracy</b>	$\pm 2$ ft (0.6 m) + 0.5% of the cable length
<b>Detection Repeatability</b>	$\pm 2$ ft (0.6 m) + 0.25% of the cable length
<b>Detection Response Time</b>	<b>LD1500/LD2100:</b> 5-995 sec $\pm 2$ sec; <b>LD5100:</b> 5-990 sec $\pm 2$ sec, software adjustable in 5 sec increments

<b>Outputs:</b>	
<b>Analog (LD5100 only)</b>	4-20mA Loop Powered, 18-36VDC, RL = 500 $\Omega$ max.
<b>Relay</b>	<b>LD2100:</b> 1A@24VDC, 0.5A resistive@120VAC; <b>LD5100:</b> 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>Communications Ports:</b>	
<b>RS-232</b>	9600 baud, No parity, 8 data bits, 1 stop bit
<b>RS-485</b>	1200, 2400, 9600, or 19200 baud (selectable); No parity, 8 data bits, 1 stop bit

<b>Protocols:</b>	
<b>Terminal Emulation (RS-232)</b>	VT100 compatible
<b>Modbus (RS-485)</b>	Slave; RTU Mode; Supports function codes 03, 04, 06, and 16; Johnson N2 (LD2100 only)

<b>Expanded Protocols (LD1500/LD2100 only):</b>	
<b>TCP/IP, HTML, TFTP</b>	IPv4.0
<b>SNMP</b>	V1: V2C MIB-2 compliant; NMS Manageable with Get, Set, Traps
<b>SMTP (email)</b>	Supports client authentication (plain and login); compatible with ESMTP servers
<b>Modbus TCP/IP</b>	Modbus slave; TCP/IP transmission protocol
<b>BACnet/IP</b>	ASHRAE Std 135-2004 Annex J

<b>Alarm Notification:</b>	
<b>Audible Alarm</b>	<b>LD2100:</b> 70 dBA@2 ft. (0.6 m); re-sound configurable (disabled, 0 to 24 hours, integer values only); <b>LD5100:</b> 85dBA@2 ft. (0.6 m); re-sound 0-999 min
<b>Visual Alarm</b>	<b>LD1500:</b> Red, 4-digit; 7 segment LED display; bi-color status LED; <b>LD2100:</b> bi-color status LED
<b>Email (LD1500/LD2100)</b>	4 email recipients; email sent on Alarm and Return to Normal
<b>SNMP Traps (LD1500/LD2100)</b>	4 community strings

<b>Logging Capabilities:</b>	
<b>Event Log</b>	<b>LD1500:</b> Last 10 events; <b>LD2100:</b> Last 500 events; <b>LD5100:</b> Last 100 events
<b>Trend Log</b>	<b>LD2100/LD5100:</b> Cable current level every day, for the last 288 days

<b>Login Security:</b>	
<b>Display Access</b>	1 Administrator (password for configuration, no password required to view panel status)

<b>Front Panel Interface:</b>	
<b>Display</b>	<b>LD2100:</b> green alphanumeric dot matrix; <b>LD5100:</b> Graphic, 160 x 160 resolution, backlit LCD
<b>Push Buttons</b>	<b>LD2100:</b> Test/Rest; <b>LD5100:</b> Up, down, right, left, enter
<b>LED Indicator</b>	<b>LD1500:</b> 1 tri-color Power/Status (green = power on; red = alarm; yellow = cable fault); <b>LD2100/LD5100:</b> 1 bi-color Power/Status (green=power on, red=alarm)

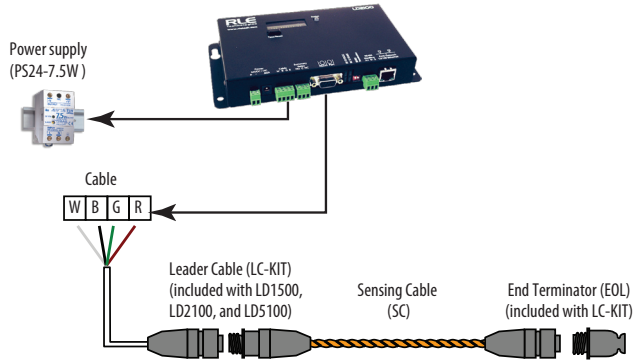
<b>Operating Environment:</b>	
<b>Temperature</b>	0° to 50°C (32° to 122°F)
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Altitude</b>	15,000 ft. (4,572 m) max.
<b>Mounting</b>	Vertical wall mount (DIN rail mounting option available on <b>LD2100</b> only)

LD1500/LD2100: CE; ETL listed: conforms to UL 61010-1, EN 61010-1; CSA C22.2; RoHS compliant, LD5100: CE; ETL listed: conforms to UL 61010A, EN 61010-1; CAN/CSA C22.2 1010-02; RoHS Compliant

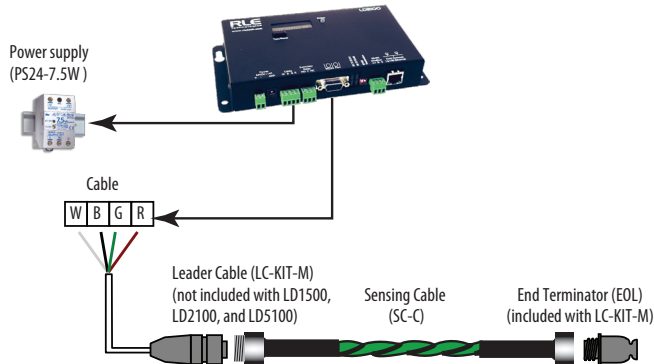
## APPLICATION/WIRING DIAGRAMS

## DIMENSIONAL DRAWINGS

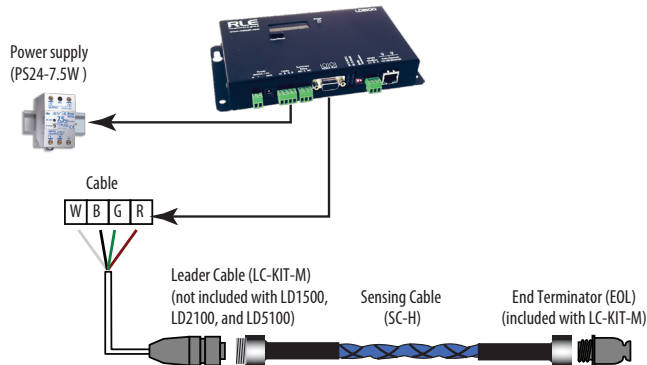
### LD1500/LD2100/LD5100 Basic SC Installation



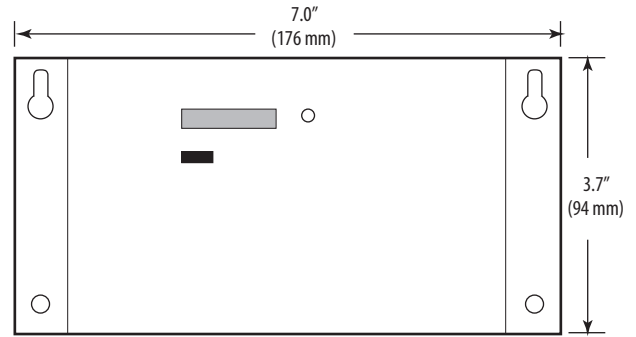
### LD1500/LD2100/LD5100 Basic SC-C Installation



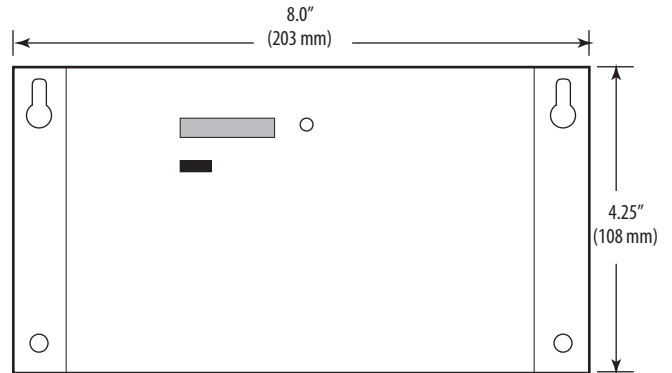
### LD1500/LD2100/LD5100 Basic SC-H Installation



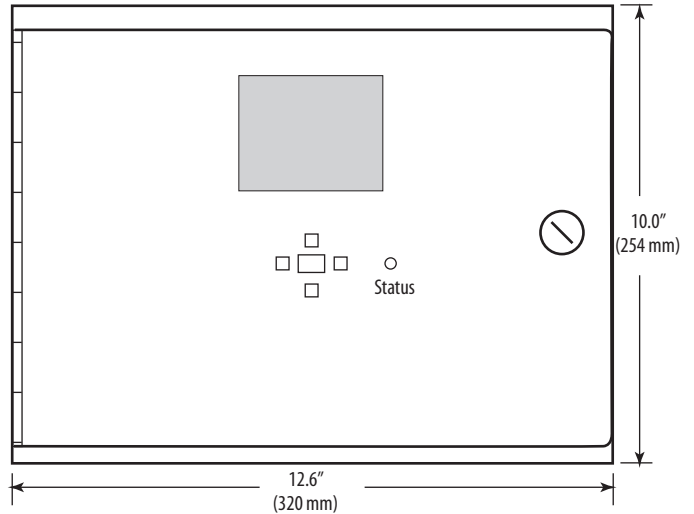
### LD1500



### LD2100



### LD5100



LEAK DETECTION

## ORDERING INFORMATION



MODEL	MANUF. PART #	DESCRIPTION
U006-0038*	LD1500*	Leak Panel, 1500' Distance Read, Modbus, BACnet, SNMP, SMTP, and relay outputs
U006-0047*	LD2100*	Leak Panel, 2000' Distance Read, Modbus, BACnet, SNMP, SMTP, and relay outputs
U006-0003*	LD5100*	Leak Panel, Distance Read, supervised, multiple outputs: relay, 4-20mA, Modbus RTU
U006-0035†	LC-KIT†	Leader cable kit for SC cables (connects from leak panel to SC or NSC cable)
U006-0061††	LC-KIT-M††	Leader cable kit for SC-C and SC-H cables (connects from leak panel to SC-C or SC-H cable)
U006-0004	FM1114	Reference map, framed (11" x 14")

\* Power supply not included. LD-ENC (U006-0045) wall mount enclosure with built-in power supply may be used with the LD1500 and LD2100. Veris PS24-7.5W power supply or equivalent may be used with the LD1500, LD2100, and LD5100.

† Included with LD1500 and LD2100, and LD5100.

†† Not included with LD1500, LD2100, and LD5100. Required for installation of SC-C and SC-H cables.