# LD1500 & LD2100

LD2100

LD1500

## HELPS ELIMINATE HIGH HUMIDITY FALSE ALARMS

## FEATURES

- Adjustable leak and contamination alarm thresholds reduce false alarms due to high humidity...high detection accuracy
- RS-232 port allows configuration with PC

## DESCRIPTION

Together with the SC or SC-C sensing cable, the LD1500 and LD2100 panels detect and report the presence and 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 | 24 Vac@600 mA max., 50/60 Hz |
| Agency Approvals | CE*; ETL listed: conforms to UL 61010-1, EN 61010-1; CSA C22.2; RoHS compliant |

| INPUTS | |
|---|---|
| Water Leak Detection Cable | Requires 15 ft. (4.5 m) leader cable kit (LC-KIT or LC-KIT-M) |
| Maximum Length | LD1500: 1500 ft. (457 m); LD2100: 2000 ft. (609 m) |
| Detection Accuracy | ±2 ft (0.6 m) + 0.5% of the cable length |
| Detection Repeatability | ±2 ft (0.6 m) + 0.25% of the cable length |
| Detection Response Time | 5 to 995 sec ± 2 sec, configure in 5 steps |

| OUTPUTS | |
|---|---|
| Relay (LD2100 only) | 1 A@24 Vdc, 0.5 A resistive@120 Vac |

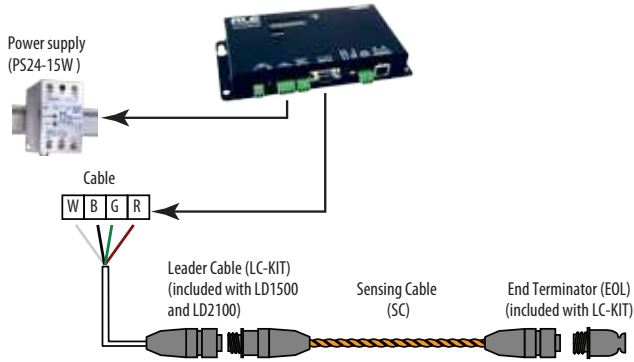| COMMUNICATIONS PORTS | |
|---|---|
| RS-232 | 9600 baud, No parity, 8 data bits, 1 stop bit |
| RS-485 | 1200, 2400, 9600, or 19200 baud (selectable); No parity, 8 data bits, 1 stop bit |

## SPECIFICATIONS (continued)

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

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

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

| LOGGING CAPABILITIES | |
|---|---|
| Event Log LD1500 LD2100 | Last 10 events Last 500 events |
| Trend Log LD2100 | Cable current level every day, for the last 288 days |

| LOGIN SECURITY | |
|---|---|
| Display Access | 1 Administrator (password for configuration, no password required to view panel status) |

| FRONT PANEL INTERFACE | |
|---|---|
| Display LD2100 | Green alphanumeric dot matrix |
| Push Buttons LD2100 | Test/Reset |
| LED Indicator LD1500 LD2100 | 1 tri-color Power/Status (green = power on; red = alarm; yellow = cable fault 1 bi-color Power/Status (green=power on, red=alarm) |

| OPERATING ENVIRONMENT | |
|---|---|
| Temperature | 0 to 50 °C (32 to 122 °F) |
| Humidity | 5 to 95% RH non-condensing |
| Altitude | 15000 ft. (4572 m) max. |
| Mounting | Vertical wall mount (DIN rail mounting option available on LD2100 only) |

*The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.*
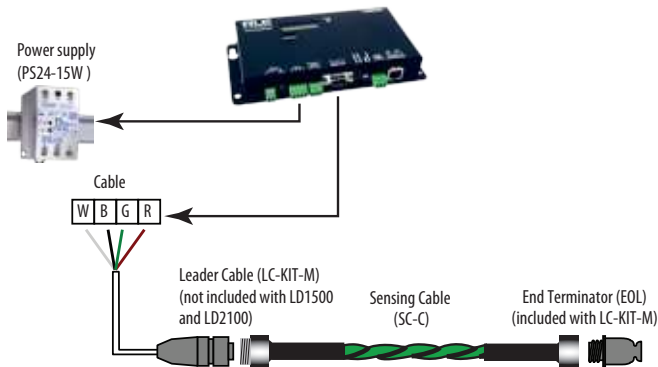
For more information on how Veris products can help optimize your systems:
Call: Toll-free 800.354.8556 | Intl. +1 503. 598.4564  Email: sales@veris.com | intl@veris.com

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## WIRING DIAGRAMS

LD1500/LD2100 Basic SC Installation

Power supply
(PS24-15W )

Cable

| W | B | G | R |

Leader Cable (LC-KIT)
(included with LD1500
and LD2100)

Sensing Cable
(SC)

End Terminator (EOL)
(included with LC-KIT)

LD1500/LD2100 Basic SC-C Installation

Power supply
(PS24-15W )

Cable

| W | B | G | R |

Leader Cable (LC-KIT-M)
(not included with LD1500
and LD2100)

Sensing Cable
(SC-C)

End Terminator (EOL)
(included with LC-KIT-M)

## DIMENSIONAL DRAWINGS

LD1500

7.0"
(176 mm)

3.7"
(94 mm)

LD2100

8.0"
(203 mm)

4.25"
(108 mm)
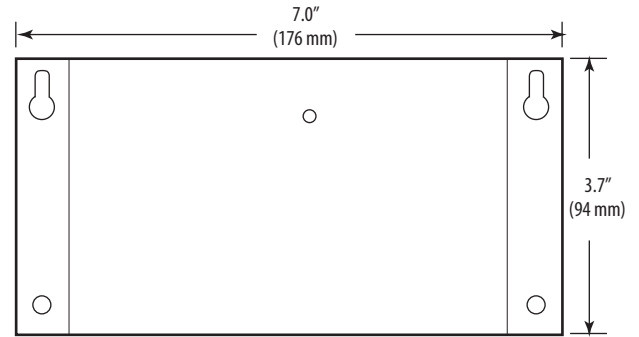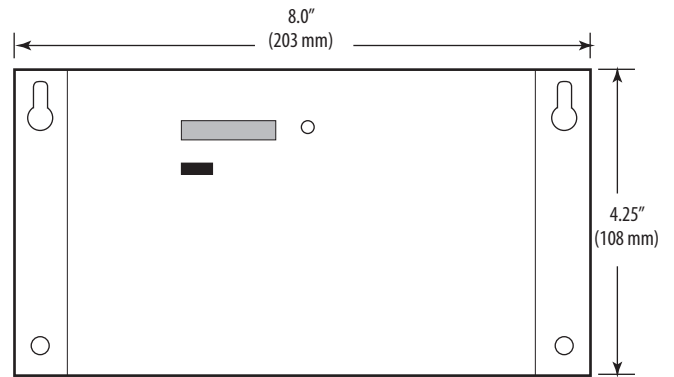
## ORDERING INFORMATION

| 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 |
| U006-0035** | 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 cables (connects from leak panel to SC-C cable) |
| U006-0004 | FM1114 | Reference map, framed (11" x 14") |

*Power supply not included. Use LD-ENC (U006-0045) wall mount enclosure with built-in power supply or Veris PS24-15W power supply or equivalent.*
**Included with LD1500 and LD2100.*
***Not included with LD1500 or LD2100. Required for installation of SC-C cables.*
*Note: The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.*