LDRA6

Six Zone Leak Detection Controller & Remote Alarm Annunciator

Applications

- Monitor both leak detection and dry contact inputs from one panel.

- Use in installations where multiple zones of leak detection are required

- Annunciate the status of sensors and other equipment

Key Features

- Six separate zones that can be individually configured for leak detection or remote annunciation

- Each zone monitors up to 1,000 feet of sensing cable and spot detectors - up to 6,000 feet total

- Form C relay output for each input, configurable as supervised or non-supervised, latching or non-latching

- Adjustable leak alarm sensitivity thresholds

- Durable NEMA 1 enclosure

- Tri-color LED for each input

- Modbus RTU communicaitons

Leak Detection and Remote Annunciation in One Panel

The SeaHawk LDRA6 accommodates up to six inputs. These inputs can be configured for zone leak detection or as remote alarm annunciators.
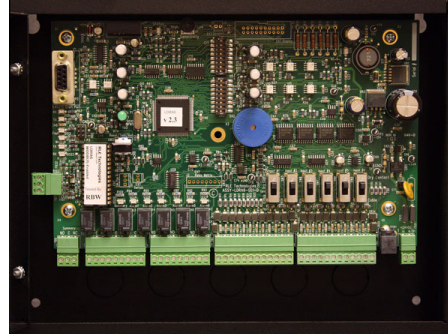
What Sets RLE's LDRA6 Apart?

- **Hybrid panel allows** each zone to be configured to provide alarm annunciation for either one zone of leak detection or an integrated dry contact input from a sensor or larger piece of equipment.

- **A supervised system,** the controller continuously monitors the cable for leaks, breaks, and disconnects and sends an alarm notification when one is detected.

- **Local alarm annunciation and seamless integration.** Onboard audible and visible alarms and relay outputs allow the LDRA6 to announce which zone or input is in alarm and deliver that information directly to a larger monitoring or BMS system.

LDRA6 · Compatible with all RLE SeaHawk sensing cables and the SD-Z and SD-Z1 spot detectors

Product Codes

LDRA6	Six zone/input dual functionality controller. Does not include LC-KITs. Requires PSWA-DC-24.
PSWA-DC-24	Power adapter; isolated 100-240VAC to 24VDC, 50/60Hz; barrel connector; includes type A blade.
LC-KIT	Leader cable and end-of-line (EOL) terminator; 15ft/4.57m; for use with SC, SC-ZH, SD-Z.
LC-KIT-M	Leader cable and end-of-line (EOL) terminator; 15ft/4.57m; for use with SC-C

Power Supply PSWA-DC-24

Internal Board

Technical Specifications

Power	Requires an isolated power supply. 24VDC Isolated @ 600mA max.; requires RLE power supply PSWA-DC-24 (not included)

Sensing Cable
  Cable Input
  Maximum Length
  Detection Response Time
	Compatible with all SeaHawk sensing cables and the SD-Z and SD-Z1 spot detectors
	EACH input requires LC-KIT: 15ft (4.57m) leader cable and EOL (not included)
	Up to 1,000ft (305m) of sensing cable and spot detectors per zone; 6,000ft (1830m) total
	20-3600sec, software adjustable in 10sec increments; ±2sec Dry Contact NO/NC (<25mA)

Relay Outputs	1 Form C Summary Alarm Relay, 6 Form C alarms, one per input/zone 1A @ 24VDC, 0.5A resistive @ 120VAC; Configurable for supervised or non-supervised, latched or non-latched

Communication Ports
  EIA-232
  EIA-485
	9600 baud; Parity none; 8 data bits, 1 stop bit
	1200, 2400, 9600 or 19,200 baud; Parity none, odd, even (programmable); 8 data bits, 1 stop bit

Protocols
  Terminal Emulation (EIA-232)
  Modbus (EIA-485)
	VT100 compatible
	Server; RTU Mode; Supports function codes 03, 04, 06, and 16

Alarm Notification
  Audible Alarm
  Visible Alarm
	85DBA @ 2ft (0.6m); re-sound (disabled, 8,16 or 24 hours)
	LED: Alarm: red; Cable Fault: yellow

Front Panel Interface
  LED Indicators
  Push Buttons
	Power: 1 green (on/off); 1 tri-color Status LED per zone (6 total) (Power On: green; Alarm: red; Cable Fault: yellow)
	Quiet/Test/Reset: 1

Operating Environment
  Temperature
  Humidity
  Altitude
	32° to 122°F (0° to 50°C)
	5% to 95% RH, non-condensing
	15,000ft (4,572m) max.

Storage Environment	-4° to 158°F (-20° to 70°C)
Dimensions	10.5"W x 8.0"H x 2.0"D (267mmW x 203mmH x 51mmD)
Weight	4 lbs. (1.82kg)
Mounting	Wall mount enclosure
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant