



# SeaHawk LDRA6

The SeaHawk LDRA6 is a multi-functional, remote alarm status panel that accommodates up to six inputs. These inputs can be configured for zone leak detection or as remote alarm annunciators. One LDRA6 can monitor both for leaks and for alarms generated by networked equipment.

As a zone leak detection solution, the LDRA6 integrates with SeaHawk sensing cables or spot detectors (SD-Z/SD-Z1). This allows the LDRA6 to detect the presence of water, conductive fluids, and chemicals. When a leak is detected, the LDRA6 annunciates an alarm for the corresponding zone. Each of the LDRA6's six zones can accommodate up to 1,000 feet (305m) of sensing cable or one or more spot detectors.

As a remote alarm status panel, each of the six inputs can be configured to relay and annunciate alarms from equipment and sensors that provide a digital dry contact signal. Common inputs to the LDRA6 include HVAC units, power distribution devices (PDU), uninterruptible power supplies (UPS), and generator summary/alarm contacts.

In addition to a panel summary relay output, each input has a unique relay output. The LDRA6's Modbus capabilities allow it to communicate with other Modbus-compatible devices.

The LDRA6 also fully integrates with RLE's family of leak detection cables. One controller can monitor an area for both water and chemical leaks with our distinct leak detection cables.

## Features

- Multi-functional controller with audible alarm
- Form C relay output for each input
- Adjustable leak thresholds
- Supervised inputs
- Tri-color LEDs
- Modbus RTU (EIA-485)

## Benefits

- Annunciates leak detection alarms and/or NO/NC dry contacts
- Simple integration into an existing alarm monitoring system
- Helps to prevent false/nuisance alarms
- Identifies cable disconnects and breaks
- Easily identify zone status (e.g., normal/ alarm/fault)
- Conveniently integrates with Building Management Systems (BMS)

# Leak Detection

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# LDRA6 Specifications

<b>Power</b>	Requires an isolated power supply. 24VDC Isolated @ 600mA max.; requires RLE power supply PSWA-DC-24 (not included)
<b>Inputs</b>	
Water Leak Detection Cable	Compatible with SeaHawk sensing cable (not included) or SeaHawk spot detectors (SD-Z or SD-Z1 only; not included)
Cable Input	Each input requires SeaHawk LC-Kit: 15ft (4.57m) leader cable and EOL (not included)
Maximum Length	Up to 1,000ft (305m) of conductive fluid sensing cable and/or spot detectors per zone; 6,000ft (1830m) total, or 700ft (213m) of chemical sensing cable per zone; 4,200ft (1280m) total
Detection Response Time Digital	20-3600sec, software adjustable in 10sec increments; ±2sec Dry Contact NO/NC (<25mA)
<b>Outputs</b>	
Relay	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
<b>Communication Ports</b>	
EIA-232	9600 baud; Parity none; 8 data bits, 1 stop bit
EIA-485	1200, 2400, 9600 or 19,200 baud; Parity none, odd, even (programmable); 8 data bits, 1 stop bit
<b>Protocols</b>	
Terminal Emulation (EIA-232)	VT100 compatible
Modbus (EIA-485)	Slave; RTU Mode; Supports function codes 03, 04, 06, and 16
<b>Alarm Notification</b>	
Audible Alarm	85DBA @ 2ft (0.6m); re-sound (disabled, 8, 16 or 24 hours)
Visible Alarm	LED: Alarm: red; Cable Fault: yellow
<b>Front Panel Interface</b>	
LED Indicators	Power: 1 green (on/off); Status (1 per zone): 6 tri-color (Power On: green; Alarm: red; Cable Fault: yellow)
Push Buttons	Quiet/Test/Reset: 1
<b>Operating Environment</b>	
Temperature	32° to 122°F (0° to 50°C)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
<b>Storage Environment</b>	-4° to 158°F (-20° to 70°C)
<b>Dimensions</b>	10.5"W x 8.0"H x 2.0"D (267mmW x 203mmH x 51mmD)
<b>Weight</b>	4 lbs. (1.82kg)
<b>Mounting</b>	Wall mount enclosure
<b>Certifications</b>	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

