



RLE Technologies

ZONE WATER LEAK DETECTION

SeaHawk LDZ Series

Designed for use with RLE's patented SeaHawk Water Leak Detection Cable, the SeaHawk LDZ Series Panels report the presence of water and any other conductive fluid within a predetermined zone. The following model is available on CLOSEOUT:

- 1) **LDZ1-NA:** 1 zone system with a visual alarm indicator only, no audible alarm.

The LDZ control panels continuously monitor up to 1,000' (300m) of SeaHawk Water Leak Detection Cable per zone. If any conductive fluid contacts the sensing cable anywhere along its length, the LDZ panel illuminates the corresponding zone LED, clearly indicating which zone is affected. All models also audibly announce the leak, excluding the LDZ1-NA.



Additionally, if the water leak detection cable is cut, has a poor connection or continuity is lost for any reason, the panel will activate a cable fault LED. Each zone has an independently adjustable leak detection "threshold" (i.e. sensitivity setting) to help prevent false alarms. A summary alarm relay output is standard.

LDZ Series Features

- One zone model
- Monitors up to 1,000' of SeaHawk Water Leak Detection Cable per zone
- Two LED indicators per zone (*single indicator on LDZ1-NA*);
 - Leak Detected
 - Cable Fault
- Sensitivity settings for each zone help eliminate false alarms
- Summary alarm relay output
- Wall mount enclosures
- LDZ8 alarm and trend logs – last 100 alarms, cable current levels for last 128 days
- LDZ8 Modbus (RS-485) interface and RS-232 craft port interface

LDZ Series Technical Specifications

	LDZ1 - Discontinued	LDZ1-NA - CLOSEOUT	LDZ4 - Discontinued	LDZ8 - Discontinued
Power	24VAC/VDC ($\pm 10\%$) @ 300mA max.	24VAC/VDC ($\pm 10\%$) @ 300mA max.	24VAC/VDC ($\pm 10\%$) @ 300mA max.	85-264VAC @ 500mA max., 50/60Hz
Inputs				
Water Leak Detection Cable	Supplied with 15' (4.57m) leader cable per zone	Supplied with 15' (4.57m) leader cable per zone	Supplied with 15' (4.57m) leader cable per zone	Supplied with 15' (4.57m) leader cable per zone
Maximum Length	1000' (305m)	1000' (305m)	1000' (305m)/zone	1000' (305m)/zone
Detection Response Time	Configurable for 10sec or 2min, $\pm 10\%$	Configurable for 10sec or 2min, $\pm 10\%$	<20sec	<20sec
Outputs				
Relay	1 Form C Leak Relay, 1 Form C Cable Fault Relay, configurable to 2 Summary Alarm Relays; 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched	1 Form C Summary Alarm Relay; 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched	1 Form C Leak Relay, 1 Form C Cable Fault Relay, 1 Form C Summary Alarm Relay (silenceable); 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched	1 Form C Leak Relay, 1 Form C Cable Fault Relay, 1 Form C Summary Alarm Relay; 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised, latched or non-latched
Communications Ports				
RS-232	N/A	N/A	N/A	1200, 2400, 9600 or 19200 selectable; No parity, 8 data bits, 1 stop bit
RS-485	N/A	N/A	N/A	1200, 2400, 9600 or 19200 selectable; No parity, 8 data bits, 1 stop bit
Protocols				
Terminal Emulation (RS-232)	N/A	N/A	N/A	VT100 compatible
Modbus (RS-485)	N/A	N/A	N/A	Slave; RTU Mode; Supports function codes 03, 04, 06 and 16
Alarm Notification				
Audible Alarm	85DBA @ 2' (0.6m)	N/A	85DBA @ 2' (0.6m), re-sound 0-24hrs	85DBA @ 2' (0.6m), re-sound 0-9,999min
Logging Capabilities				
Alarm Log	N/A	N/A	N/A	Last 100 alarms (FIFO)
Trend Log	N/A	N/A	N/A	Cable current level per zone, for the last 128 days
Login Security				
Terminal Emulation Access	N/A	N/A	N/A	1 Administrator (password for configuration)
Front Panel Interface				
LED Indicators	1 green Power (on/off); 1 amber Cable Fault; 1 red Leak Detected	1 green Power/Status (green=on/normal; flash rate indicates cable fault or leak detected)	1 green Power (on/off); 4 amber Cable Fault; 4 red Leak Detected (1 per zone)	1 green Power (on/off), 8 amber Cable Fault; 8 red Leak Detected (1 per zone)
Push Buttons	1 for Reset, Quiet & Test	N/A	1 Reset, 1 Quiet & 1 Test	1 Reset, 1 Quiet & 1 Test
Operating Environment				
Temperature	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Humidity	5% to 95% RH, non-condensing	5% to 95% RH, non-condensing	5% to 95% RH, non-condensing	5% to 95% RH, non-condensing
Altitude	10,000' (3,048m) max.	10,000' (3,048m) max.	10,000' (3,048m) max.	10,000' (3,048m) max.
Storage Environment	-4° to 158°F (-20° to 70°C)	-4° to 158°F (-20° to 70°C)	-4° to 158°F (-20° to 70°C)	-4° to 158°F (-20° to 70°C)
Dimensions	2.56"W x 1.57"H x 4.72"D (65mmW x 40mmH x 120mmD)	2.56"W x 1.57"H x 4.72"D (65mmW x 40mmH x 120mmD)	10.5"W x 8.0"H x 2.0"D (267mmW x 203mmH x 51mmD)	12.0"W x 14.0"H x 4.0"D (305mmW x 356mmH x 102mmD)
Weight	8 oz. (227g)	8 oz. (227g)	4 lbs. (1.82kg)	12 lbs. (5.45kg)
Mounting	Vertical wall mount	Vertical wall mount	Vertical wall mount	Vertical wall mount
Certifications	UL508A/CUL508A, FCC Part 15	UL508A/CUL508A, FCC Part 15	UL508A/CUL508A, FCC Part 15	UL508A/CUL508A, FCC Part 15



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What's Going On...

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Warranty

Products manufactured by RLE Technologies are warranted to be free from defects in materials and workmanship for one year after the date of shipment. Such warranty is limited to parts and labor to repair or replace such RLE products that are found to be defective. To ensure warranty coverage, all installation and other instructions must be followed properly. All installation and setup work must be performed by qualified personnel who are knowledgeable of the equipment and aware of appropriate safety, wiring, and other applicable practices.

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