

LD 310

Leak Detection

SINGLE ZONE LEAK DETECTION CONTROLLER

01

APPLICATIONS:

- Ideal for smaller contained areas like air conditioner condensate pans.
- Frequently used in facilities with pumps, chillers, boilers, and water control valves.

02

KEY FEATURES:

- Monitor up to 300 feet of sensing cable and spot detectors
- Adjustable leak alarm sensitivity
- Lightweight, compact design
- Local audible and visible alarm annunciation
- Plug and play installation
- Integrate into a larger system via leak and fault relay outputs

03

WHAT SETS RLE'S LD310 APART?

- **Zone leak detection** system alarms when water comes into contact with the attached sensing cable or spot detector. It is the right fit for spaces where sensing cables and spot detectors are visible so leaks can easily be located.
- **Local alarm annunciation.** Onboard audible and visible alarms notify users of leaks and faults in real time.
- **A supervised system,** the controller continuously monitors the cable for leaks, breaks, and disconnects and sends an alarm notification when one is detected.
- **Patented leak detection technology.** Our cables dry and reset quickly so they're ready to detect the next issue.

<https://parametersystems.com>

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V11.20

04 RELIABLE LEAK DETECTION IN A COMPACT PACKAGE: RLE's most cost effective controller, the LD310 is easy to install and provides reliable leak detection as either a standalone device or integrated into a larger BMS platform.



05 LD310: Compatible with all RLE SeaHawk sensing cables and the SD-Z and SD-Z1 spot detectors.

Product Codes	
LD310	Single zone leak detection controller with audible alarm. Includes LC-KIT for use with SC, SC-ZH, SD-Z. Requires PSWA-DC-5 or WA-DC-5-ST.
LD310-M	Single zone leak detection controller with audible alarm. Includes LC-KIT-M for use with SC-C. Requires PSWA-DC-5 or WA-DC-5-ST.
PSWA-DC-5	Power adapter; isolated 100-240VAC to 5VDC, 1.6A. Barrel connector. Striped lead is positive. Includes type A blade.
WA-DC-5-ST	Power adapter; 100-240V to 5VDC. Type A plug. Stripped end.

06 Technical Specifications

Power	Requires an isolated power supply. 5VDC ($\pm 10\%$) Isolated @ 100mA max.; requires RLE power supply PSWA-DC-5 or WA-DC-5-ST (not included)
Included Accessories	Leader cable and EOL terminator

06

Technical Specifications

Sensing Cable Cable Input Maximum Length Detection Response Time	One zone leak detection; Compatible with all SeaHawk sensing cables and SD-Z and SD-Z1 spot detectors Requires 15ft (4.57m) leader cable and EOL (included) 300ft (91m) of sensing cable <20sec; 10sec typical
Relay Output	2 Form C alarm relays (leak and fault); 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable as supervised or non-supervised
Panel Alarm Notification Audible Alarm Visible Alarm	85dB @ 10cm (min) Indicates cable break or leak detected Bi-color LED Normal Operation - Green Cable Fault - Flashing Orange Leak Detected - Flashing Red
Push Button Switch Push Once Push and Hold for 5 Seconds	Silence audible alarm Initiates system test, resets system, clears all active alarms
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	4.4"L x 2.5"W x 1.5"H (11.2cmL x 6.4cmW x 3.8cmH)
Weight	0.2lb (0.1kg)
Mounting	Free standing, zip ties, screw and keyhole – spaced 2.5" (6.4cm), junction box – 2 screws spaced 3.28" (8.3cm)