

# LD310 Single Zone Leak Detection Controller

## Applications

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

## Key Features

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



## Reliable Leak Detection In A Compact Package

ACI's most cost effective controller, the LD310 is easy to install and provides reliable leak detection as either a stand-alone device or integrated into a larger BMS platform.

## What Sets ACI'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.
- **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.** Onboard audible and visible alarms notify users of leaks and faults in real time.
- **Patented leak detection technology.** Our cables dry and reset quickly so they're ready to detect the next issue.

## LD310 • Compatible with all ACI 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 A/PS24-5V-S.   |
| LD310-M   | Single zone leak detection controller with audible alarm. Includes LC-KIT-M for use with SC-C. Requires A/PS24-5V-S.  |
| Technical Specifications  |   |
| Power   | Requires an isolated power supply.<br>5VDC ( $\pm 10\%$ ) Isolated @ 100mA max.; requires ACI's power supply A/PS24-5V-S.   |
| Included Accessories  | Leader cable and EOL terminator   |
| Sensing Cable<br>Cable Input<br>Maximum Length<br>Detection Response Time | One zone leak detection; Compatible with all ACI sensing cables and SD-Z and SD-Z1 spot detectors<br>Requires 15ft (4.57m) leader cable and EOL (included)<br>300ft (91m) of sensing cable<br><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<br>Audible Alarm<br><br>Visible Alarm            | 85dB @ 10cm (min)<br>Indicates cable break or leak detected<br><br>Bi-color LED<br>Normal Operation - Green<br>Cable Fault - Flashing Orange<br>Leak Detected - Flashing Red  |
| Push Button Switch<br>Push Once<br>Push and Hold for 5 Seconds            | Silence audible alarm<br>Initiates system test, resets system, clears all active alarms   |
| Operating Environment<br>Temperature<br>Humidity<br>Altitude              | 32° to 122°F (0° to 50°C)<br>5% to 95% RH, non-condensing<br>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)  |
| Certifications  | CE; ETL listed: conforms to UL 61010-1, EN 61010-1; RoHS compliant  |