

## LD310

The LD310 single zone leak detection controller monitors up to 300 feet (91.4m) of sensing cable. The LD310 is easy to install and configure, and works well either as a stand-alone controller or when integrated into existing monitoring systems via relay outputs.

Equipped with both an audible alarm and a visible LED alarm indicator as well as relay outputs, the LD310 is prepared to let you know when you have a leak. A push-button switch allows users to silence the audible alarm and to test and reset the system. Jumpers allow users to adjust the sensitivity of the leak detection circuit and to disable the audible alarm.

The LD310 is a supervised system. This means if the sensing cable is cut, has a poor connection, or loses continuity, the module will indicate a cable fault alert by flashing the LED, sounding an alarm, and activating a fault relay. With a supervised system, you can be sure your leak detection cable is working effectively to protect your critical environment. Ideal for smaller areas and facilities, the LD310 is most commonly installed in facilities with pumps, chillers, boilers, water control valves, and around air conditioner condensation pans.

Note: An isolated 5VDC power supply is required to power the LD310.



### Features

- LED and audible alarm indicators
- Adjustable leak alarm sensitivity thresholds
- Configurable for supervised or non-supervised operation
- Relay outputs enable integration into other monitoring systems
- Lightweight, compact design

### Benefits

- Virtually eliminates false & nuisance alarms
- Distinguishes normal conditions from alarm conditions
- Ensures that critical alarms are not missed
- Easy, fast to install
- Quality leak detection at a low cost

## Specifications

<b>Power</b>	Requires an isolated power supply. 5VDC (+/-10%) Isolated @ 100mA max; requires power supply WA-DC-5-ST (not included)
<b>Included Accessories</b>	Leader cable and EOL terminator
<b>Inputs</b>	
Sensing Cable	Compatible with water leak sensing cable
One Cable Input	Requires 15ft (4.57m) leader cable and EOL (Included)
Maximum Length	300ft (91m) of conductive fluid sensing cable or 210ft (64m) of chemical sensing cable
Detection Response Time	<20sec; 10sec typical
<b>Outputs</b>	
Relay	2 Form C Alarm Relays (leak and fault); 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable as supervised or non-supervised
<b>Alarm Notification</b>	
Audible Alarm	85dB @ 10cm (min)
Visible Alarm	Bi-color LED
<b>Front Panel Interface</b>	
Audible Alarm	Indicated cable break or leak detected
LED Indicator	
Normal Operation	Green
Cable Fault	Flashing Orange
Leak Detected	Flashing Red
Push Button Switch	
Push Once	Silence audible alarm
Push and Hold for 5 Seconds	Initiates system test, resets system, clears all active alarms
<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>	2.7"W x 4.4"H x 1.38"D (69mmW x 112mmH x 35mmD)
<b>Weight</b>	3.0 oz. (85.0g)
<b>Mounting</b>	Surface Mount
<b>Certifications</b>	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; RoHS compliant