

LD1000 Single Zone Leak Detection Controller

Applications

- Facilities where the sensing cable or spot detector is exposed or leaks can easily be located
- Areas that require a more durable, robust, industrial single zone leak detection controller

Key Features

- Monitor up to 1,000 feet of sensing cable and spot detectors
- Quickly returns to normal status after sensing cable is wiped dry
- Durable NEMA 1 enclosure
- Adjustable leak alarm sensitivity
- Two relay outputs, configurable as supervised or non-supervised and as leak & fault or summary alarms



1,000 Feet of Durable, Patented Leak Detection

ACI's most rugged single zone controller, the LD1000 provides reliable leak detection, preventing facility and equipment damage, costly business outages, and downtime.

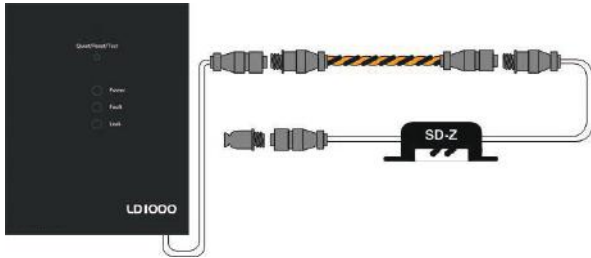
What Sets ACI's LD1000 Apart?

- **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 and Modbus integration.** Onboard audible and visible alarms and a Modbus output allow the LD1000 to notify users of leaks and faults in real time and deliver that information directly to a LD5200, LD2100, or a larger BMS system.

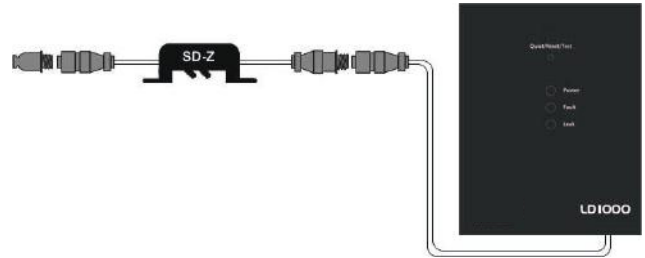
LD1000 • Compatible with all ACI sensing cables and the SD-Z and SD-Z1 spot detectors

Product Codes

LD1000	Single zone leak detection controller; selectable audible. Includes LC-KIT for use with SC, SC-ZH, SD-Z, SD-Z1. AC/DC
LD1000-M	Single zone leak detection controller; selectable audible. Includes LC-KIT-M for use with SC-C. AC/DC



LD1000 connected to an SD-Z and sensing cable



Connect an SD-Z1 to an LD1000

Technical Specifications

Power	Requires an isolated power supply for DC operation. 24VDC ($\pm 10\%$) Isolated @ 300mA max.; requires ACI power supply A/PS24-24V-S. 24VAC ($\pm 10\%$) @ 300mA max.; requires ACI power supply LE117 or LE120.
Included Accessories	Leader cable and EOL terminator
Sensing Cable Cable Input Maximum Length Detection Response Time	Compatible with all ACI sensing cables and the SD-Z and SD-Z1 spot detectors Requires ACI LC-Kit: 15ft (4.57m) leader cable and EOL terminator (included) Up to 1,000ft (305m) of sensing cable Configurable for 10sec or 2min, $\pm 10\%$, when used with conductive fluid or chemical sensing cables
Relay Outputs	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
Communication Port EIA-485	9600 or 19,200 baud; Parity none; 8 data bits, 1 stop bit
Protocols Modbus (EIA-485)	Slave; RTU Mode; Supports function codes 03, 04, and 06
Alarm Notification Audible Alarm	85DBA @ 2ft (0.6m); Selectable
Front Panel Interface LED Indicators Push Buttons	Power: 1 green (on/off); Cable Fault: 1 amber; Leak Detected: 1 red 1: Quiet, Reset, Test
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	4.125"W x 5.5"H x 2.25"D (105mmW x 140mmH x 58mmD)
Weight	27 oz (765g)
Mounting	
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; RoHS compliant