

SEAHAWK LEAK DETECTION



Designed for use with RLE patented SeaHawk Water Leak Detection Cable (SC), the SeaHawk LD300 reports the presence of water or any conductive fluid within a predefined zone. The LD300 is a single zone system with a visual alarm indicator and Form C output relays for leak and fault alarms. If the SC is cut, has a poor connection, or loses continuity, the module will indicate a cable fault alert by flashing the LED and activating a fault relay. The LD300 is used with applications requiring integration into an existing monitoring system via digital dry contacts.

The LD300 also features jumper selectable leak detection thresholds for adjusting the sensitivity of the leak detection circuit.

The LD300 can accommodate a continuous run of up to 300 feet (91.44m) of SC and is ideal for small areas. Common applications of this system include data centers (around condensate pans), clean rooms, telecommunication centers and other critical areas. The LD300 offers a reliable leak detection solution that mitigates potential water damage, costly business outages, and downtime.

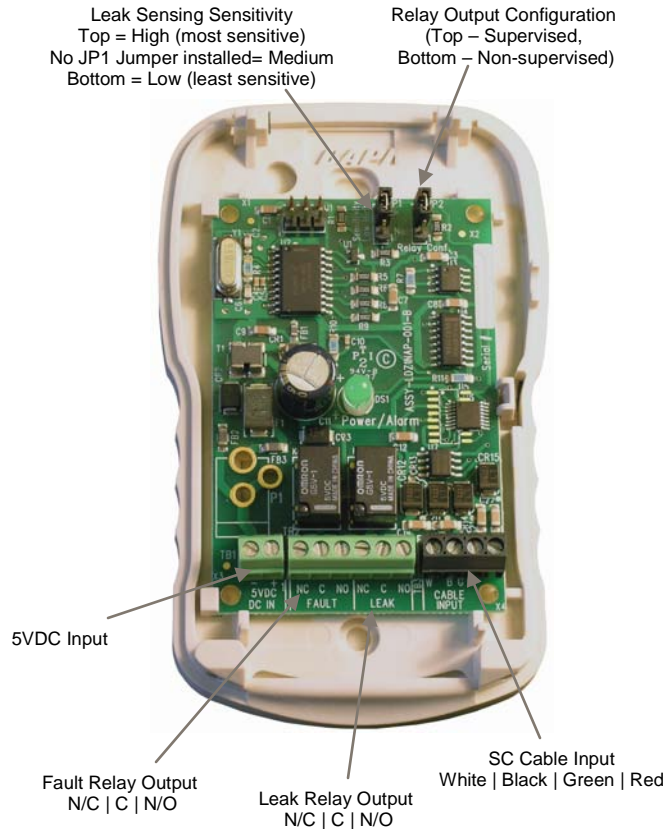
Key Features

- Adjustable leak alarm sensitivity thresholds
- Two Form C output relays (leak and fault)
- LED indicator
- Configurable for supervised or non-supervised operation
- Lightweight design
- Cost-effective water detection solution

Benefits

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

Wiring Diagram



Installation & Setup

The LD300's output relays are labeled for an unenergized state. Therefore, the labeled relay output (N/C – C – N/O) is for an unenergized relay.

To install the LD300:

- 1) Secure the LD300 to a wall or surface with provided hardware.
- 2) Attach the leader cable contained in the LC-Kit to the cable input.
- 3) Attach a length of Seahawk Leak Detection Cable (SC)* to the leader cable.
- 4) Attach the end of line terminator (EOL) contained in the LC-Kit to the end of the SC cable.
- 5) Wire power (5VDC)* to the LD300.

***Note:** SC cable and power supply (WA-DC-5) sold separately.

LED Status Indicator

- LED on solid: *Unit powered, no alarms present.*
- LED flashing on 1/2 second, off 1/2 second: *leak alarm.*
- LED flashing on 1/2 second, off 2 1/2 second: *cable break alarm.*

Specifications

Power	5VDC (±10%) @ 100mA max (Isolated); requires power supply: WA-DC-5 (not included)
Inputs	
Water Leak Detection Cable	Compatible with SeaHawk Sensing Cable (not included)
Cable Input	Requires SeaHawk LC-Kit: 15ft (4.57m) leader cable and EOL (LC-Kit included)
Maximum Length	300ft (91m)
Detection Response Time	<20sec; 10sec typical
Outputs	
Relay	2 Form C Alarm Relays (leak and fault); 1A @ 24VDC, 0.5A resistive @ 120VAC; configurable for supervised or non-supervised
Alarm Notification	
Audible Alarm	Not applicable
Front Panel Interface	
LED Indicators	Power/Status: 1 green (on/normal); flash rate indicates cable fault or leak detected
Cable Fault Flash Rate	½ second on - 2 ½ second pause
Leak Detected Flash Rate	¼ second on - ½ second pause
Operating Environment	
Temperature	32° to 122°F (0° to 50°C)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
Storage Environment	-4° to 158°F (-20° to 70°C)
Dimensions	2.7"W x 4.4"H x 1.1"D (69mmW x 112mmH x 28mmD)
Weight	3.0 oz. (85.0g)
Mounting	Surface mount
Certifications	CE; ETL listed: conforms to UL STD 61010-1, EN STD 61010-1; RoHS compliant



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