



The SeaHawk Leak Detection Cable Evaluator (LDCE) is designed to work specifically with SeaHawk leak detection panels that utilize SeaHawk Leak Detection Cable (SC).

The LDCE is used to test and measure the precision of any length of SC. The LDCE simplifies cable testing, system troubleshooting, and maintenance because it measures leakage current across the cable's two sensing wires. This is important because a high leakage current can affect the accuracy of readings. A reading of zero is ideal; however a reading of 25uA or less is acceptable.


The LDCE includes a pre-connected, 2 foot (.61m) interface cable. Notably, the LDCE can also be used to test SeaHawk Water Seeker Cable (WS), our two-wire purple cable, with the supplemental purchase of an adaptor (WS-A). In addition to testing SC and WS, the LDCE can be used to test its own internal battery and current source.

IMPORTANT: A multi-meter with a micro current (uA) scale is required to operate the LDCE. A multi-meter is not included with the LDCE. Contact RLE for details about our optional multi-meters.

Key Features & Benefits

- Quick-connect cable connection to SeaHawk SC cable
- Simplifies cable testing, troubleshooting, and maintenance
- Battery powered
- Tests its own internal battery and current source
- Includes a pre-connected interface cable
- Optional multi-meters with uA scale
- RoHS compliant

Specifications

Power	Battery, 9VDC; internal
Inputs	
Water Leak Detection Cable	Supplied with 2ft (0.61m) interface cable; interface cable is pre-connected
Maximum Length	5,000ft (1,524m)
Outputs	
Jacks	1 Red (Voltage); 1 Black (Common); and 1 Blue (Current)
Front Panel Interface	
Push Buttons	Cable Test: 1; System Check: 1
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	0.5 lbs. (0.226kg)
Certification	RoHS compliant
	

Cable Testing Instructions

Follow the steps below to perform maintenance and troubleshooting tests on SeaHawk Leak Detection Cable (SC):

1. Power down the control head and disconnect the SC cable to be tested from its leader cable. Connect the LDCE interface cable to the SC cable receptacle. The LDCE can test one cable or a string of cables, up to a total length of 5,000 feet (1,524m).
2. Connect the LDCE meter leads up to your multi-meter. Connect the Red to the Voltage (V) input, connect the Black to the Common (COM) and connect the Blue to the Micro Amp input (uA). **DO NOT** hook the leads up backwards, you will blow the internal fuse in your meter.
3. Set the current meter's selector switch so you can read the current at 200uA.
4. Push the cable test button and record the meter reading. A reading less than 25uA is acceptable. A reading greater than 25uA indicates the cable needs attention. It may be necessary to separate mated pairs of cable and test each section individually to isolate the problem cable.

To check the accuracy of the test current, press the Cable Test button and ensure that your meter displays a reading of approximately 180uA. If not, change the battery in the current source and retest for the proper value.

NOTE: The uA reading will be lower if the internal 9V battery is low.

LDCE Battery Voltage Test

The LDCE can also test the internal 9V battery voltage. To test the battery, follow the steps below:

1. Turn the selector switch on your DVOM (Digital Volt Ohm Meter) to the VDC position; if the meter is not auto ranging, set it to 20VDC. If the reading is less than 8VDC, the battery should be changed.
2. To access the battery, screw in the two lock-down screws on the front cover using a 1/16" (1.59mm) allen wrench. Remove the two push button caps. Lift the cover and replace the battery.
3. Back out the lock-down screws from the unit until they are flush with the bottom cover. Replace the push button caps onto the unit.



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