Honeywell

LAS-SH10
SeaHawk Controller

Product Specification Sheet

General

As a most cost-effective distance-read leak detection module, the SeaHawk can serve as a stand-alone leak detection and notification solution or provide a seamless and cost-efficient way to extend the capabilities of Building Management System (BMS).

When functioning as a stand-alone system, the SeaHawk monitors up to 3000 continuous meter of sensing cable.

The front panel of the unit features an audible alarm and visible LED status notification, as well as a 4-character LED that indicates the distance from the controller to the leak or cable contamination.

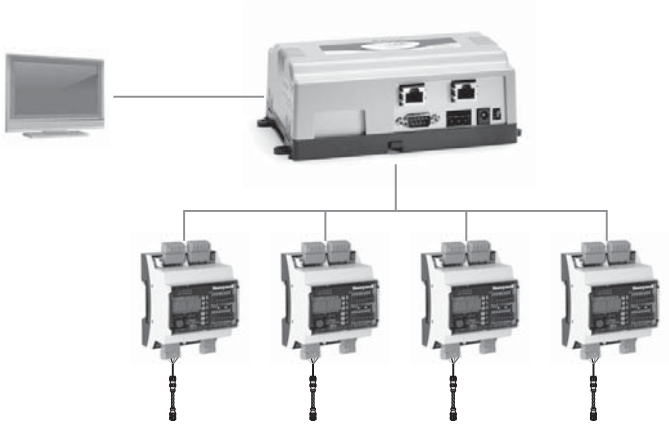
The SeaHawk can also be networked with a Modbus monitoring system, i.e. a modbus enabled BMS controller. This integration greatly increases the length of cable these appliances can monitor.

The SeaHawk retains its stand-alone features, while the appliance provides a centralized source of monitoring, communication, and notification capabilities.

Features

- Stand-alone leak detection or integration into a a modbus enabled BMS controller
- Accommodates up to 3000 continuous meter of sensing cable
- Modbus communication
- Audible and visible alarm notification
- Wall and DIN rail mountable
- Configurable by DIP switches or Modbus
- Cost efficient, easy-to-integrate leak detection solution
- Relay output for simple system integration

System Diagram Example



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Technical Specifications

Power	An isolated power supply must be provided for the SeaHawk. A dedicated circuit breaker must also be provided within close proximity to the SeaHawk and clearly be marked as the disconnecting device for the SeaHawk leak detection controller. 12-24 V AC/DC (±10%), 50-60 Hz - LAS-PSWA
Accessories	Included: leader cable and EOL terminator
Output	
Relay	1 Form C, 5 A resistive @ 30 VDC, 8 A resistive @ 250 VAC, Minimum load 10 mA @ 5 VDC (Signal)
Inputs	
Leak Detection Cable	Compatible with SeaHawk sensing cable (not included)
Cable Input	Requires 4.57 m leader cable and EOL terminator (included)
Maximum Length	3000 m
Minimum Length	11 m
Detection Accuracy	± 0.6 m +/- 0.5% of the total cable length
Detection Repeatability	± 0.6 m +/- 0.25% of the total cable length
Detection Response Time	5 to 990 sec. (selectable)
Communication Ports	
EIA-485	1200, 9600, or 38,400 baud, N2 (selectable); Parity: none, 8 data bits, 1 stop bit
Protocols	
Modbus (RTU)	Slave; RTU mode; Supports function codes 03, 04, 06 and 16 Master; RTU mode for integration with select RLE controllers or any Modbus master BMS/NMS. Addressable from 1 to 254.
Alarm Notification	
Visible Alarm	Red LED for leak alarm Yellow LED for cable contamination or fault 4-character LED displays distance or fault status
Audible Alarm	85 dBA @ 0.6 m; re-sound configurable, 0 to 999 min.
Front Panel Interface	4-character LED displays leak or contamination distance or fault status
LED Indicators	Six LED indicators: • Red: Leak • Yellow: Cable Fault, Break, or Contamination • Green: Power On • Green: Measurements made in feet • Green: Measurements made in meters • Green: Microamps of current on cable
Push Button	Test/Reset/Alarm Silence, cycle through device functions
Operating Environment	
Temperature	0 °C to 50 °C
Humidity	5% to 95% RH, non-condensing
Altitude	4500 m max.
Storage Environment	-20 °C to 70 °C
Dimensions (WxHxD)	71 mm x 109 mm x 61 mm
Weight	153 g
Mounting	Wall and DIN rail mountable
Certifications	CE; ETL listed: conforms to EN 61010-1; UL 61010-1, certified to CSA C22.2 NO. 61010-1; RoHS compliant

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End-of-line terminator Leader cable

Leader Cable and End-of-Line (EOL) Terminator

The 4.57 m leader cable achieves easy connectivity with the SeaHawk leak detection controller. The EOL terminator connects to the end of the sensing cable to provide a complete circuit in a leak detection system. These two parts are necessary components for any SeaHawk leak detection system and are included with the SeaHawk leak detection controller.

Connections	
Number of Conductors	4
Nominal Insulation Thickness	0.15 mm
Nominal Jacket Thickness	0.25 mm
Nominal Outer Diameter	3.07 mm
	Compatible with SeaHawk sensing cable (not included)
	AMP 4-pin circular receptacle
Standards	NEC Article 725-CL2P, CMP, MPP
Operating Environment	
Temperature	0 °C to 50 °C
Humidity	5% to 95% RH, non-condensing
Altitude	4500 m max.
Storage Environment	-20 °C to 70 °C
Medium for Detection	Normal water (e.g. not de-ionized, distilled etc.) without oil and corrosive contaminants.
Length	4.57 m
Weight	120.2 g
Certifications	CE; RoHS compliant

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