



EnviroTech Alarms Ltd

LEAK-HUNTER 1 Single zone oil leak detection system

WHAT DOES THE PRODUCT DO?

The LeakHunter 1 detects the presence of non conductive fluids such as oil in environments where it shouldn't be. Should this be detected the alarm panel will trigger an internal buzzer and an LED will start to flash. There are also a number of volt free relays that will switch when oil has been detected.

WHAT OUTPUTS ARE AVAILABLE?

- 3 X 2 amp Volt free changeover common alarm relay. Will switch state on detecting an alarm. Perfect for connection to an external sounder/beacon, for switching off a pump or triggering a telephone dialler.
- 12VDC output for running low voltage devices directly from the panel up to 500mA..
- Power fail relay will switch should the mains power be interrupted.
- Output connector for Echo repeater panel used for remote monitoring in a different location to the main panel location.
- Mute button - silences the panel after an alarm has been triggered as well as used to reboot the panel should a fault occur.
- Onboard LED outputs for System Healthy, Power On, Oil Leak Detected, Line Fault and Power Fail.

WHAT INPUTS ARE AVAILABLE?

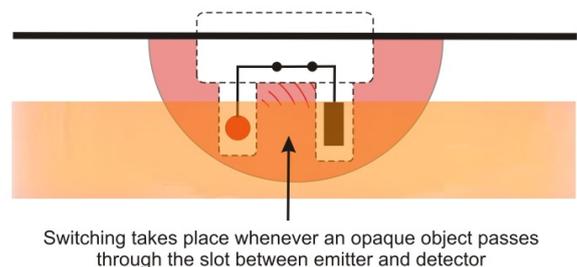
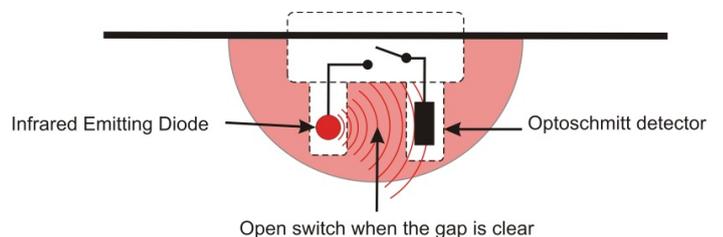
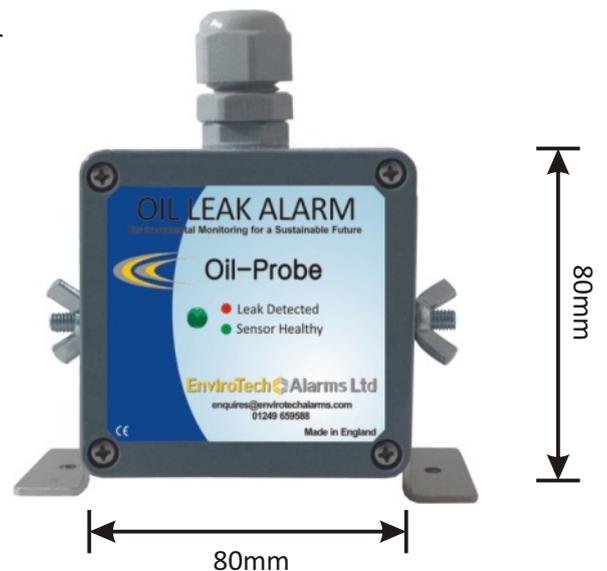
- 12VDC 1.2 aH Battery back with run time: 8 hours fully charge standby mode.
- Sensor input terminal.

HOW DOES IT WORK?

The principle of oil leak detection involves the use of a sensor. Working on the principle of light passing between two points the oil sensor detects any change in opacity between an emitting diode and a detector. This causes the sensor to switch state and signal that oil is present.



Sensor

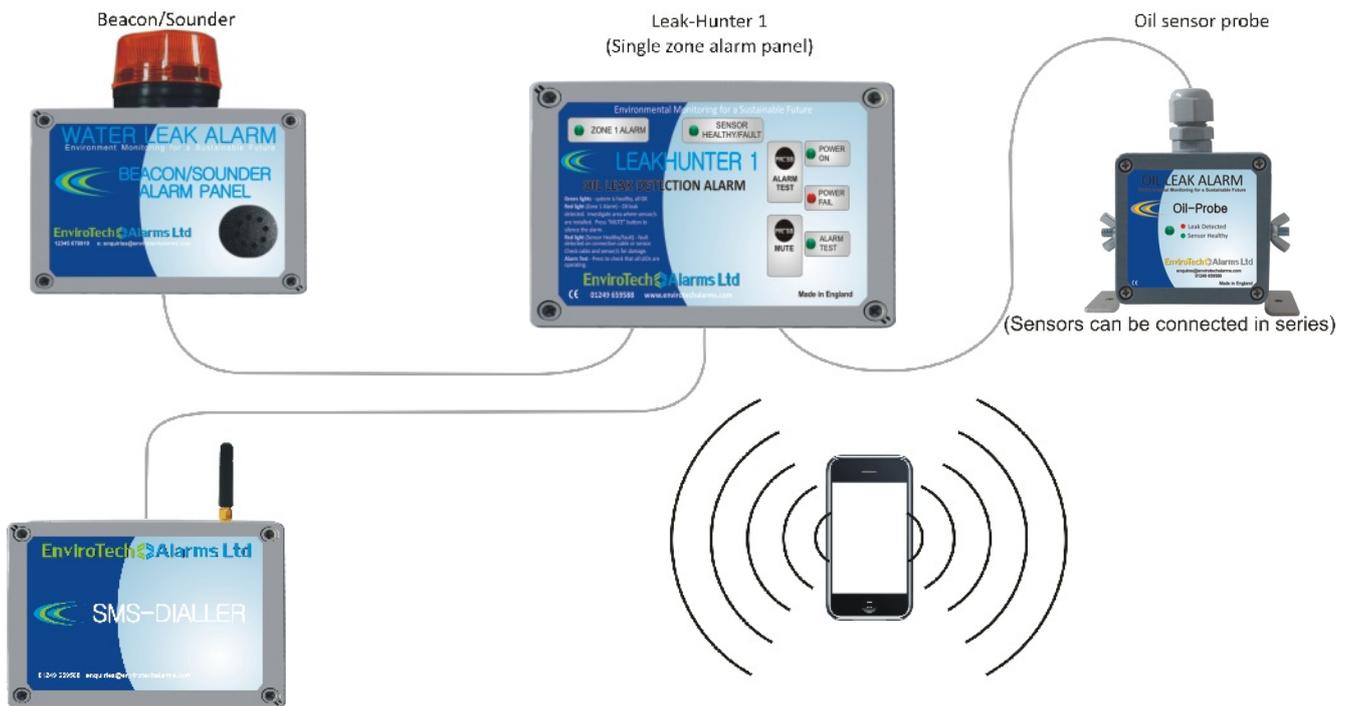


LEAK-HUNTER 1 SPECIFICATION

Zones	1
Outputs	Volt free relays
IP Rating	65
Operating Temperature	-18°C to 50°C
Sounder Volume	80db at 10cm
Valve Compatibility	12VDC / 230VAC Solenoid

Aviation Spirit	Motor Oil
Benzene	Diesel
Butane	Petroleum Ether
Edible fats & Oils	Sulphuric Acid
Hydrochloric Acid	Transformer Oil
Kerosene	Varnish
Linseed Oil	Water
Methanol	White Spirit

Typical Configuration



Optional Extras

Telephone Diallers

Available as a landline or SMS text message system.

Programmable telephone numbers.

Editable messages to inform recipient what area the alarm has occurred.



Sounder/Beacon

Super bright amber beacon

Load sounder

Triggered when an alarm is detected by the master alarm panel

Easily installs to panel with a single plug in connector



Echo Repeat Panel

Simulates an alarm from an alarm panel located in a different part of the building.

Can be located in a reception or security area where people are present.

Sounder and LED light output.



TECHNICAL SPECIFICATION

MAIN FEATURES:

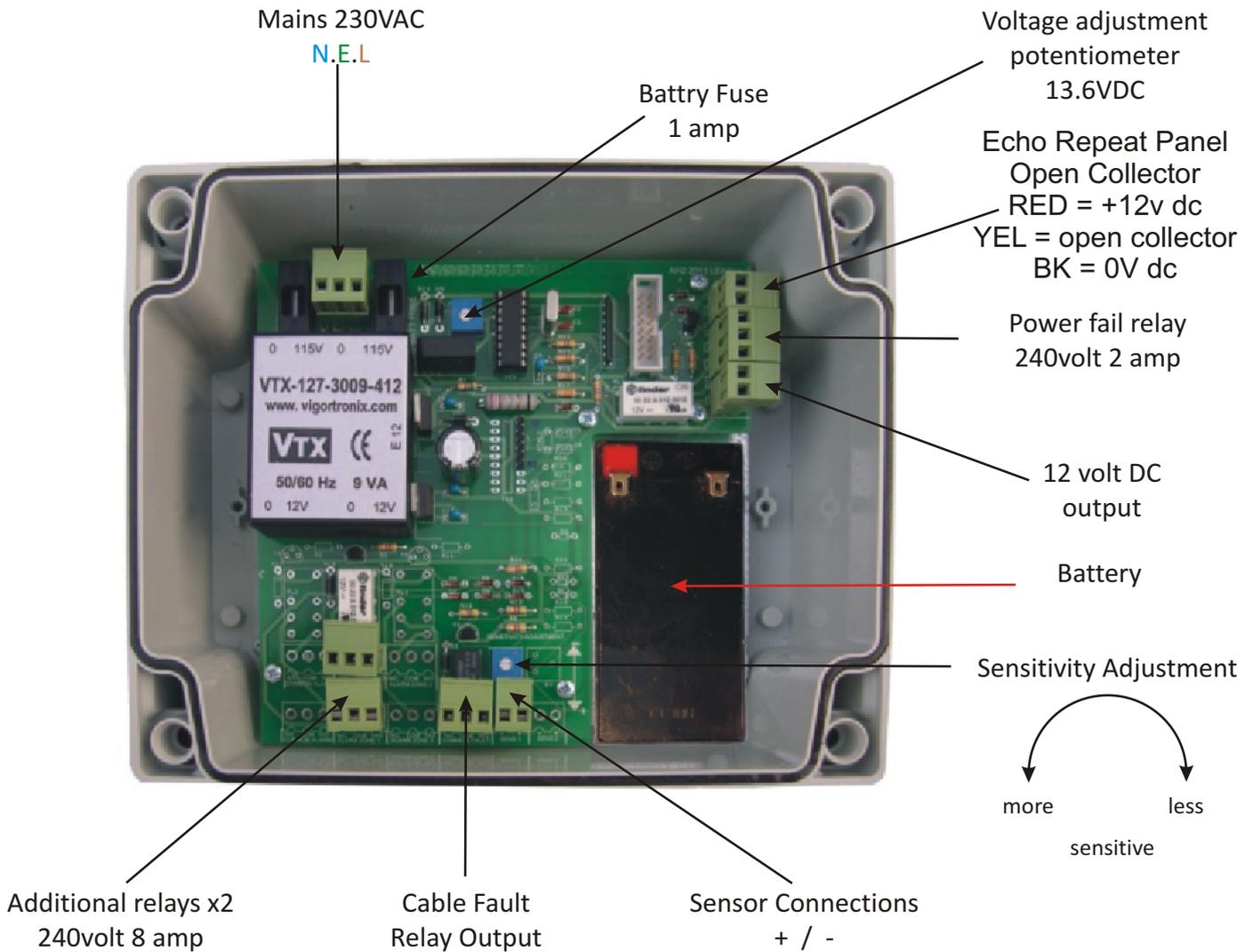
100m of cable per zone	Visual alarm output
Sensor fault monitoring	Connection to BMS and valves
3 x volt free relay contacts	Auto resets after leak has been dried out
Inbuilt audible alarm output	

Product Specification:

Supply Voltage:	Self sensing 120VAC to 240VAC 40 - 60Hz +/- 15% SMPSU
Supply Current:	3A max
Current burden on standby:	35 Watts @ 230Vac +/-15%
Alarm Relay:	DPCO volt free contact
Contact rating:	2A@250Vac resistive
Fault Relay:	SPCO volt free contact 1A@50Vac resistive (signal only NOT MAINS VOLTAGE)
Power Fault Relay:	SPCO volt free contact
Contact rating:	2A@250Vac resistive
PER ZONE Alarm Relay:	DPCO volt free contact
Contact rating:	2A@250Vac resistive
Each Sensors Inputs:	One set of terminals (each can take more than one sensor) terminated with a signal diode
Sensor Types:	Oil leak detection probe
Maximum Cable Length:	100m connector cable
Alarm LED :	5mm Flashing Red. 1 for each zone
Fault/Healthy:	LED: 5mm TRI colour. Green zone healthy & Red zone fault
Audible alarm output:	80db@10cm continuous tone
Electrical Connections:	All un-pluggable terminals sized 0.5-2.5mm ² cable

Housing Material: The housing is grey ABS with hinged lid. The door is lockable by six screws
Dimensions (1 zones): 285mm high, 235mm wide and a depth of 105mm.
Ambient Range: -10 to +50deg C, 0-90% RH condensing
Battery Charge voltage: 13.6Vdc float charge sealed lead.
Battery run time standby: 20 hours @ full charge dependant on condition.
Country of Origin: U.K.

Connections (LeakHunter1 Panel):



Installation:

Mounting; The LeakHunter 1 alarm panel has been designed to be surface mounted and are fixed to a wall using appropriate screws and wall fixings. Cable entry can be back, bottom, top or side entry using appropriate cable glands.

Electrical Supply; A 2 amp fused spur is required adjacent to the panel in order to power it.

Sensitivity adjustment; Less sensitivity may be needed on longer cable runs, each zone has independent adjustment.

Testing; Wet test - this is achieved using oil placed onto the sensor probe to simulate an oil leak (note: the sensor will need to dry before alarm will reset).