

## LAS-10 All-In-One

Based on experience from installations of larger LAS-10 Systems on ships where several detectors are necessary due to the extent of the Engines spaces.

We were invited by various ship owners and users to develop a supplementary model, which can operate without integration with control Unit, Internal Alarm systems etc. A **LAS-10 All-in-One**.

A Leakage detector which needs only to be connected to the ships own power supply, and is then ready to operate without additional installation or Commissioning.

The **LAS-10 All-In-One** can actually give fault and Alarm signal to the ships general alarm system if so desired.



The **LAS-10 All-In-One** was introduced in 2012 and has proved its value in many smaller ships in various applications.

### LAS-10 All-In-One features:

- Same Class approved technology as LAS-10
- Simple - Plug and Detect.
- 90 to 300 VAC input power
- Preset Alarm level 17% or 33% of Lower Explosive Level (LEL)
- Output signal as Bi-coloured LED, Fault and Alarm relays to activate horn and vessels alarm system.



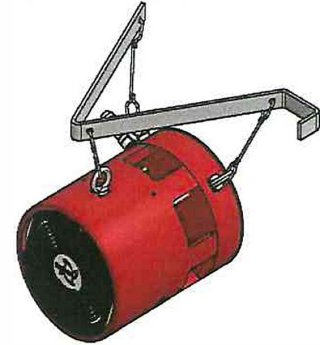
The main purpose with this model is to safeguard smaller, open engine rooms (e.g. smaller tug boats, pilot boats and fishing vessels) or hydraulic power pack rooms in a simple and quick, yet very efficient way based on a large volume of air (10 Cubicmetres/minute) flowing through the detector analyzing it for hydrocarbons in gasses, mist or droplets.



## LAS-10 All-In-One

### LAS-10 All-In-One Detector

Detection Range	> 0,002 mg/l
Airflow	600 m <sup>3</sup> /hour
Reaction time	5-10 sec. Depending on preset alarm limit
Gas detection	Hydrocarbons
Material, enclosure	Anodized Aluminium
Dimensions	Ø 190 x 235 mm
Weight	5,5 kg
Power supply	24 VDC
Power consumption	45 W
Enclosure rating	IP44
Operating temperature	-25 to +70 degr. C
Operating humidity	0 to 95% rH
Output signal	Bi-coloured LED
Preset Alarm levels	Gas Alarm settings 17% or 33% of LEL, Mist Alarm setting 5% above actual level of diff. Pressure.



### Power supply / Relay Unit

Number of detectors	1
Material	Aluminum
Dimensions	255 x 190 x 90 mm
Weight	3,3 kg
Power supply	Input voltage: 90-305 VAC Output voltage: 24 VDC
Power consumption	5 W
Enclosure rating	IP65
Operating temperature	-20 to +70 degr. C
Operating humidity	0 -95 % rH
Output signals	Fault and Alarm relays RS422 or RS483 Full-duplex

