

Marine Gas Detection Kit



The *Marine Gas Detection Kit* is a system that will increase safety and reduce costs regarding gas detection on ships. These benefits are achieved by the fact that calibration, maintenance and service can be carried out on board, instead of sending the instruments ashore at regular intervals.

The system is based on a specially designed quality log where all information about calibrations, bump tests, maintenance etcetera. is kept. Physically it consists of a standardised set of instruments stored inside an easy transportable and watertight case. The case also contains instruction manuals, quality log, calibration- and sampling equipment.

The Marine Gas Detection Kit covers all known requirements from IMO, ISGOTT, SOLAS, OCMIF, Class Societies and the "Oil Majors".

All instruments included in the Marine Gas Detection Kit have been carefully selected for reliability, ruggedness and ease of use. By following the easy step by step instructions the calibration and documentation work is easily carried out. We can also provide "on hand" training for the equipment for increased understanding and practical skill.

Transportation case with wheel.

Size: 800 x 520 x 300 mm

Weight: approximately 27 kg.

Calibration Gas Kit

The system also contains a separate case for up to 10 bottles of calibration gases.

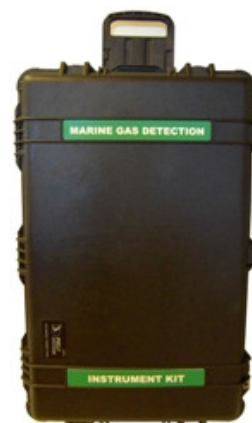
Size: 500 x 400 x 220 mm

Weight: 10 kg

Example of calibration gases:

2 pcs	Calibration Gas Bottle % LEL
4 pcs	Calibration Gas Bottle % VOL
2 pcs	Calibration Gas Bottle N ₂
2 pcs	Calibration Gas Bottle Multi gas

Contents may differ depending on instrument and configuration.



Description of instrument and other equipment of the Marine Gas Detection kit.

Instruments

2 pcs **RIKEN RX517, % LEL, %VOL, O₂, H₂S**
 This instrument measures Hydrocarbons (%LEL and vol%), oxygen and hydrogen sulphide in air or inert atmosphere. Reliable and rugged design with a powerful built in pump which allows sample draws from 30 meter depth. Easy to use, maintain and calibrate.



2 pcs **RIKEN GX-2009, % LEL, O₂, H₂S, CO**
 Personal gas detector for explosive %LEL, O₂, H₂S and CO. Exceptionally small and light weighed detector which is waterproof and have 20 hour battery capacity. It is for example equipped with a data log, vibration-, visual- and audible alarm, automatic illumination. Very simple to use, calibrate and maintain. Has a unique rotating alligator clip for secure and comfortable usage.



2 pcs **Gas Tester II**
 Sampling pump for Detector Tubes



Detector Tubes

10 pcs Benzene
 10 pcs H₂S
 10 pcs Gasoline

(Other tubes according to cargo)

Sampling hoses

2 pcs Sampling hose with connector 20 m
 2 pcs Floating head probe
 1 pcs Sampling hose for pump 15 m

Calibration equipment

1 pcs Calibration adaptor for GX-2009
 1 pcs Demand flow regulator for instrument with pump
 1 pcs Fixed flow gas regulator

Accessories

1 pcs Spare filter set
 1 pcs Tool kit

QA-system

1 pcs Log & Instruction Manual

Options

Calibration Gases

We can supply you with calibration gases and distribute the bottles to your vessels in any harbour (exceptions may occur). The delivery time is estimated to be 2–3 days in Sweden and 4–5 days World Wide. Order must clearly present delivery address, quantity and gas type. Transportation costs are not included.

Training Course for Marine Gas Detection

-1/2 day Physical & Chemical characteristics of actual Gases

-1/2 day Use & Maintenance of Gas Measuring Instruments

This course qualifies the participants to carry out calibrations and basic maintenance on the instruments. The training can be done on board or at other locations that will suite the participants. A suitable group of attends will be between five and eight persons.

Alternative routines for Calibration and Certification of Instrument Kit

Alternative 1:

After training of personnel the calibration, certification and basic repair routines will take place onboard. All calibrations and repairs (change of sensors etc) will be filed in the Log & Instruction Manual. This means the Instrument Kit never have to leave the vessel. Spare parts, sensors etc will be ordered according to routines and supplied to the vessel.

Alternative 2:

By implementation of a “exchange kit” we will supply the vessel with a replacement kit and after received this, the vessel sends the existing kit back to our workshop for calibration and certification. The order routine for delivery is estimated to be 2–3 days (Sweden) and 4–5 days (World Wide). Order must clearly present delivery address.

Alternative 3:

All kits can be sent to us and will be calibrated, functional tested and documented to certify applicable regulations of quality and safety. Estimated time in our workshop is 13 days.