



the importance of portable gas detection in commercial shipping

In a world of mass global trade the logistics industry has never been more prevalent than it is today. The constant need to move raw materials and other items is facilitated predominantly by shipping vessels and tankers and on these floating high-tech facilities, safety is an important factor as emergency help is not as immediately available as it would be on land.

This makes the provision of robust safety an intrinsically important factor in commercial shipping, and as a result, gas detection is a key requirement. Gas detection is needed for two key functions; to protect the asset of the ship or vessel itself and to protect the crew onboard the ship.

The potential gas hazards in commercial shipping

Depending on the type of ship and the cargo, dangerous gas concentrations can form in the atmosphere at any time. Liquid gas, fuel, chemicals and other fossil fuels harbor a risk of explosion and there is a danger of suffocation from lack of Oxygen when using Nitrogen or other non-flammable gases for inerting. It is also important to be aware of dangers presented by toxic gases such as Carbon Monoxide from exhaust fumes, or Hydrogen Sulphide from the decomposition of organic compounds found in the briny water inside the ballast tank.

What type of protection is required?

In addition to this type of protection, portable gas warning devices can also be used for enhanced safety. One use is for the clearance measurements of enclosed danger zones such as tanks and cargo bays prior to filling using the integrated electrical pump, sampling hose and probe. The other main use of a portable unit is for operator protection, whereby the device “accompanies” crew members as part of their personal safety equipment during work in potentially dangerous areas.

Impact Pro – The world’s best portable multi-gas detector

Honeywell Analytics’ range of portable gas detectors provides a number of robust solutions for a variety of applications.

Impact Pro is a small, portable multi-gas detector capable of monitoring a number of gases including Oxygen, Hydrocarbons, Carbon Monoxide and Hydrogen Sulphide. It offers detection in diffusion and electrical pump operations, clear readings of measured data on an illuminated display, an intuitive menu system with a choice of 6 languages and integrated data storage capabilities.

Impact Pro provides an IP 67 rated protection and comes with an MED-approved (Marine Equipment Directive). Both NiMH and alkaline dry cells can be used to supply power, while catalytic, electrochemical and IR cells are available as sensors. These are integrated in a sensor cartridge which can be reset by the user in less than two minutes using the Enforcer test and calibration device. The sensor cartridge can also be replaced quickly and with minimal effort. With this in mind, Impact Pro offers a user-friendly and economical protection system with a high level of functionality.

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Ship owners know that potential hazards due to explosive gases, toxic gases and a lack of oxygen can go undetected without a suitable gas warning device. So when the safety of staff and machinery is of the utmost priority, choose Impact Pro. This tried and tested product, developed specifically for practical use in environments like those found in commercial shipping vessels, provides complete protection and peace of mind.

Key Features of Impact Pro:

- » Multi-gas monitor with easily changeable sensors (Plug & Play / Disposable) allowing for various sensor configurations
- » Cartridges can be changed in under a minute
- » Automatic pump for easy remote sampling
- » Compact & robust design: IP67 rating for water and dust ingress
- » Safelink cable allows multiple devices to “talk” to each other
- » Easy-to-use interface and design
- » Visual & audible alerting system

For more information, please contact a member of the Sales Team today on: **+41 0 44 9434300.**