



## Products



### MPU - Multi Point Unit:

- Monitoring unit, 2, 4 or 6 channels, for different detectors. Loaded with smart functions as LED status indication and build in buzzer etc etc. The MPU can be used with MP-detectors, 4-20mA transmitters, ATEX detectors etc.

### Stand alone detectors or transmitters:

- A wide range of detectors and a variety of different measurement techniques, semiconductive, electrochemical, Infra-red for HCFC's, HFC's, CO<sub>2</sub>, NH<sub>3</sub> and Hydrocarbons is available. The detectors come in different IP-ratings with different measuring ranges. All to cover your specific application and requirements.

### Infra-red sampling system:

- The IR-em detects all HCFC's, HFC's and Ammonia. Highly selective – No false alarms. Aspirated system with high capacity pump enabling sample tube lengths up to 150m.

### Pre fabricated electrical cabinets:

- For easy construction we supply pre fabricated electrical cabinets. Available in both stain less steel and painted steel for the toughest conditions. Additional drawings delivered as DWG-files and PDF-files.

### Accessories:

- Samon also provides a wide range of accessories. Like UPS, service and maintenance tools, flash lights, sirens, Unit bumper protection, signs etc etc.

**World leaders in leak detection on-board!**

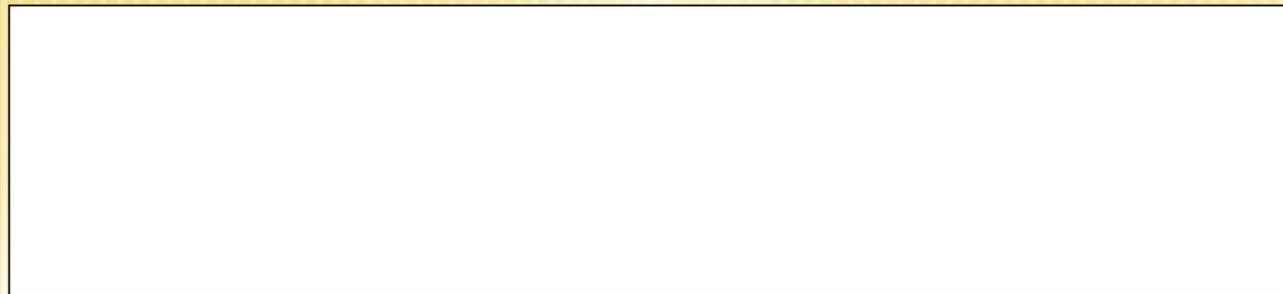


**Specialist in Refrigerant leak detection!**

### **SAMON AB**

MODEMGATAN 2 - S-235 39 VELLINGE - SWEDEN  
TEL + 46 - (0)40 - 15 58 59 FAX + 46 - (0)40 - 15 60 31  
WWW.SAMON.SE

Distributor:





Since more than 15 years SAMON have supplied refrigerant leak detection systems to the global Marine Industry. We offer a wide range of product solutions, for different kind of ships and applications, with own design and manufacturing. The products are often installed by refrigeration or electrical contractors in ships under construction or during ship operation.

**... Our references is the best proof**



**Cruise ships**

Royal Caribbean, Celebrity Cruises  
Carnival Cruises, Princess Cruises,  
AIDA Cruises, Norwegian Cruise Line,  
Holland America Line, Hurtigruten  
MSC Cruises.



**Cargo ships**

COSCO, Evergreen line, Hatsu Marine,  
CSL, STASCO, Walenius Wilhelmsen,  
Maersk Line, Hanjin,



**Special Vessels**

Petroserv, Sakhalin Energy, DOF  
HAVILA, American Seafood,  
Ocean Prawn, Skansi Offshore



**Ferries**

Stena Line, P&O, Color Line,  
Scandlines, Brittany Ferries  
Viking Line, Tallink.



**Navy**

Sweden, Denmark, US, Japan,  
Royal Navy (UK)



**Why gas leak detection?**



**Environmental reasons**

The escape of HFC, HCFC, and Carbon Dioxide into the atmosphere is the source of immense concern due to environmental damage on the ozone layer and for the greenhouse effect. Early discovery of a refrigerant leakage can make a crucial difference.

**Save goods and money**

It may begin in a small scale, such as a crack in a pipe or a worn shaft seal. However such minor leakages can develop into dangerous, major events that result in costly breakdowns, costly re-fills and disruptions of operations.



**Personal safety**

Ammonia is very poisonous even in low concentrations and all HFC/HCFC are heavier than air. This means that if any leak occurs, the refrigerant displaces the air in any given space and thus causes a potentially lethal shortage of oxygen in the room.

**Where to detect gas leakage?**

**Refrigeration plant rooms**

According to Classification societies rules leak detection shall be installed where there is a risk for leakage. In practice the most common leakage locations is in the plant rooms, locker rooms and tube shafts with valves.



**Provision rooms**

Another frequent leak location is in provision rooms with fan-coils. Samon detectors can operate in temperature from - 40 °C to +50 °C.

**Classification Societies – DNV-GL, BV, Lloyds Register, ABS**

- In line with the increased worldwide focus on both environmental and safety issues, the rules regarding installation of gas detection equipment on-board are becoming more stringent from the Classification Societies.
- There are now mandatory rules in place from all the leading Classification Societies about the installation of continuously detecting gas equipment and these are increasingly being followed up by rules regarding mandatory inspection and adjustment at regular intervals. Classifications type CLEANSHIP, CLEANSHIP SUPER, CLEAN DESIGN etc will increase these rules and demands furthermore.