

Fire and gas alarm systems for Navy installations

Efficient fire alarm systems are of vital importance for the protection of lives and assets at sea.

To meet these demands Consilium offers state of the art fire alarm systems, developed for the most demanding marine environments.

Salwico have long tradition of supply fire detections system for Navy application. The requirements for Navy application are much more demanding compared with the merchant marine and the efficiency and environments requirements are high for protection of lives and assets at sea.

To meet these demands Consilium offers state of the arts fire detections syssystem, developed for the most demanding marine environments.

We are very proud to supply our products to all kind of navy ships, submarines, patrol ships, Corvettes, Destroyers etc.



CFASS addressable analogue fire detection system

The CFASS is the latest generation addressable analogue fire detection system, representing the state of the art in microcomputer processing and data communication technology.

General Data submarine class 214

Length overall	Approx. 65 m
Height	Approx. 13 m
Pressure hull diameter	Approx. 6.3 m
Surface displacement	Approx. 1,700 t
Crew	27 (+8)
Pressure hull	Ferromagnetic steel

Main features CFASS system

- Intelligent software evaluation of smoke concentrations.
- 254 addresses for each loop.
- Up to 3 detector loops.
- Central chock proof up to 22 g, 20 ms (400 g, 20 ms with shock absorbers).
- Detectors chock proof up to 400 g, 20 ms.
- EMC tested and approved according to: VG 95373, GWK 3,4.
- Outputs for control of external equipment such as compressors, fuel cells flash lights etc.
- Communication with ECC system via RS232, RS485 mode.
- All materials are halogen-free.



Submarine Class 214 for the Hellenic Navy

Armament

8 full-size swim-out tubes in the bulkhead for all kinds of torpedoes (4 tubes equipped with a weapon expulsion system for missiles).

The scope of supply class 214 consists of:

- CFASS central panel with 2 loops
- Optical addressable smoke detectors
- IS addressable smoke detectors
- IS isolator
- UV flame detectors
- UV flash lights

LPD-17

General Data

Length LBP 200 m
 Length Overall 208.5 m
 Beam Extreme 31.9 m

CS3000 central

The Salwico CS3000 is of addressable type.

Main features:

- High level of safety standard
- Ensures maximum customer usability
- Unique way of presenting crucial information

The systems is totally decentralized with each fire zone having its own central and graphic system. All centrals as well as graphic systems are linked together. At the same time are all serial/graphic information given to a central computer.

In case of one central being damaged the others will work as normal. External alarm functions are controlled from the central computer.

Detectors are combination heat/smoke detectors, normal heat detectors 57 and 80 degree c as well as special



T-Ake ships for the US Navy

low temperature, 40 degree c, detectors for ammunition stores. UV flame detectors are added for several areas and Intrinsically Safe detectors for selected rooms. Total number of measuring points are more than 1200.

All components have passed the US Shock/vibration test MIL-S-901D and MIL-STD-167-1, this in addition to already conducted EMI and environmental tests.

Visby Corvette

General data:

Length 72 m
 Width 10,40 m
 Displacement 600 t
 Crew 43

Salwico CS3000 features:

- FG 3000 Integrated Fire & Gas Detection System Solution
- SMS 210 Salwico Management Software Solution



The visby Corvette for the Swedish navy

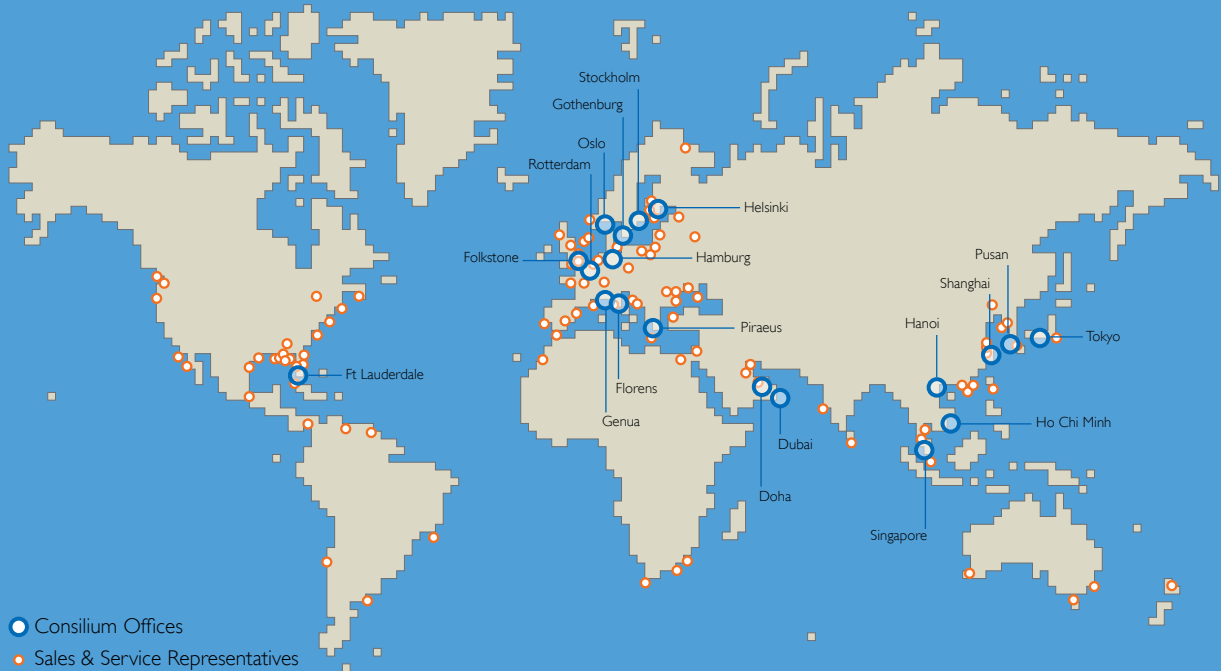
The Salwico FG3000 system configuration

Main features:

- High level of safety standard
- Ensures maximum customer usability
- Unique way of presenting crucial information
- Operating in embedded environment
- TCP/IP Protocol - Ethernet network
- Possibility to remote manouvering
- Shock resistance according to specified navy standards
- Specially prepared for higher EMC protection



Global Service and Support



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Salvico for Navy



When Safety Matters



Fire & Gas Detection Systems

Reliable and Customized Solutions