

# Automation

## Integrated Automation System



# **Steinsohn Automation**

***10 years warranty on all I/O components***

***Exchangable Control Elements***

***User-friendly Interface***

***Redundant Bus System***

***Seperate Extension Alarm system***

## **Integrated Automation System**

The IS steinsohn Automation System is developed to monitor and control all technical processes on board: the engine room, deck area and for the entire range of loading and tank control.

The system monitors all ship's operating technological systems on all kind of sea going vessels and yachts. Measured values are acquired by small I/O nodes that are installed centrally, in the engine control room, or decentralized at every place the data are created. Measured values and alarms are presented on decentralised panels or graphic workstations. In watch-free operation, the Alarm Extension System to the watch-keeper's workplace transmits all alarms occurring.

## **Simple operation, easy to learn**

Operation of the system is menu guided and fulfils all operating comfort requirements and ergonomics. All present alarms can be seen at a glance and can thus identify even stress situation. No lengthy periods of training are necessary.

## **Quick, low-cost installation and commissioning**

All components are pre-configured and ready for instant operation, standard on-board cables are used for the system wiring, making installation and commissioning of the system quick and uncomplicated. No special cable, particularly low cost installation and commissioning.

## **10 years free part service**

We have faith in our quality and will replace any faulty input / output nodes free of charge for a period of 10 years, quickly and without complications. No extra costs, no downtime.

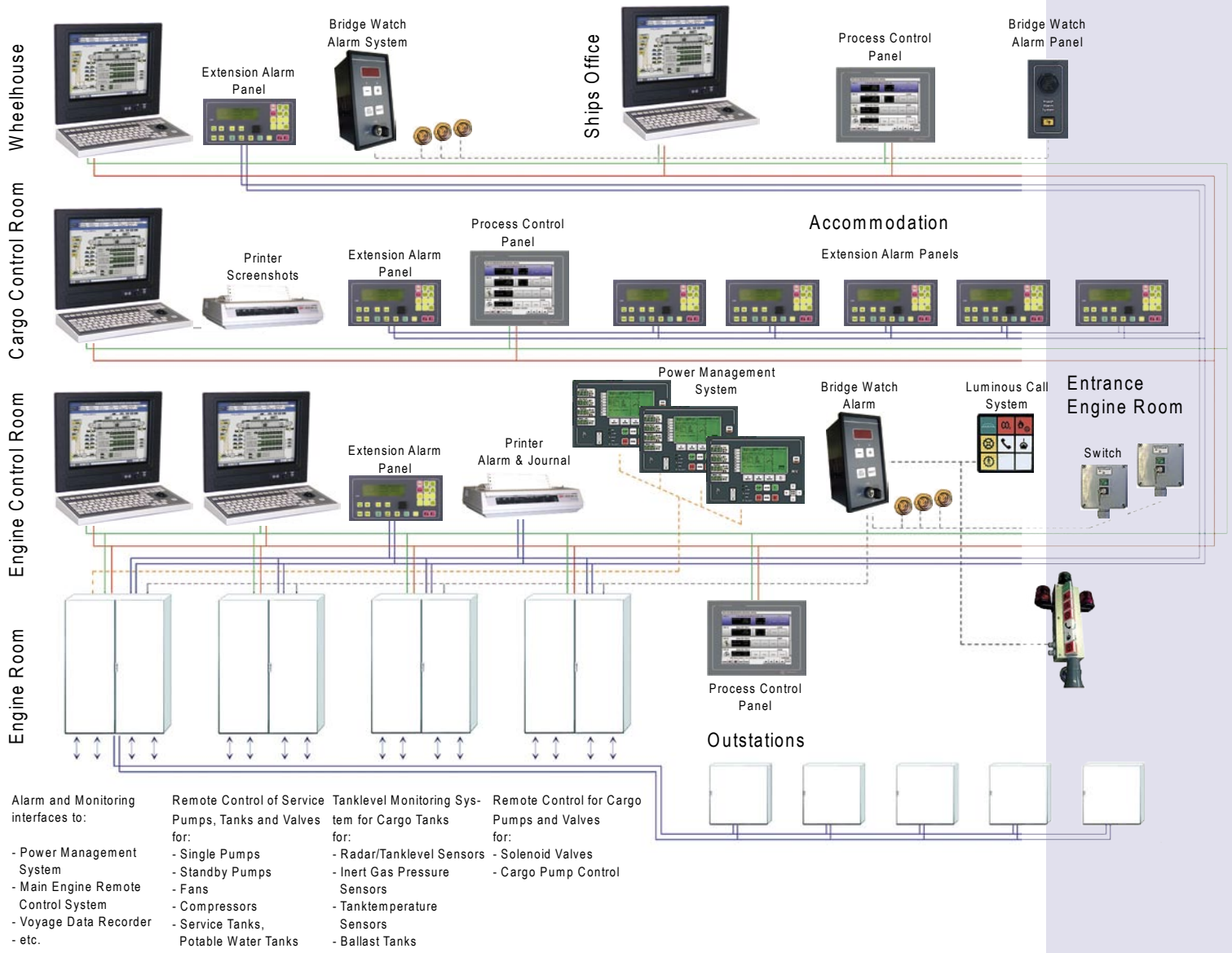
## **Components replaceable in 30 seconds**

All components can be replaced during operation, without special training or tools. Within a very short of time, the system is in operation once again. No re-start, no parameterisation.

## **Significant features**

- Easy integration of third party systems
- 'Plug and Play' interfaces to all system components
- Modular setup of system, central or decentral
- Process Control Panel (back-up level)
- Vast experience for all types of vessels and mega yachts
- Off-watch operation by 'XAS'
- Self monitoring
- Galvanic isolated I/O's
- Remote control via Ship Explorer
- Interfaces to Fleet Management System and VDR
- Earthfault detection on each binary input node

# Typical Integrated Automation System



The system can process up to 8.000 measuring points, divided into 16 segments. Each segment comprises an Alarm and Monitoring Station and the relevant I/O nodes. Up to 500 measuring points can be processed by the station, parameters administrated, tank contents calculated and alarms given.

### Applicable to

- Engine monitoring
- Auxiliary system
- Fuel management
- Ballast water management
- Bilge management
- Power management
- Cargo management
- Cylinder liner monitoring
- Control exhaust gas monitoring
- Level gauging
- Valve & pump control
- Compressor control
- Fan control
- Heating ventilation air condition

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