SISHIP IMAC
Integrated control system for ships
Integrated Solutions for ships

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SISHIP IMAC – Easily meeting even complex needs

The complex technologies of modern ships require powerful control systems that ensure both the best possible system availability as well as a high degree of control reliability. Only particularly fast and reliable networks can handle the enormous integration density of electronic systems on board, while also securing the necessary data exchange with computer systems on land.

The numerous technological control functions can only be managed by using programmable logic controllers, which, for reliability and availability reasons, sometimes must be redundantly designed.

SISHIP IMAC – Our solution in detail

The SISHIP IMAC control system is specifically designed for automation functions on modern ships. Thanks to its modular designs, SISHIP IMAC can be very flexibly adapted to a variety of needs.

- Sufficient number of inputs/outputs for state-of-the-art automation
- Operator station with graphic computer, display screen, standard keyboard, and standard trackball
- Two time systems, LT (local time) and UTC (universal time coordinated)
- Advanced alarm handling to reduce watch duty workload
- Monitoring system enables overview of the respective process condition
- Parameters such as limit value, time delays, and fade in/out can be changed online
- Web access enables even shore-based staff to retrieve online operational values from the ship

On board ships with special automation needs (cargo ships, cruise ships, large ferries, special ships), the powerful and reliable SISHIP IMAC control system assumes all alarm, monitoring, and control functions. The particular strengths of SISHIP IMAC are demonstrated in its ability to be scalable and to process a high number of measuring points. SISHIP IMAC communicates with other automation systems on board, and enables the integration of complex systems such as the propulsion control system or the power management system.
**SISHIP – Integrated Solutions for ships**

As a comprehensive industry-specific solution for seagoing ships, our SISHIP product family integrates all the products and services you need for sustained maximization of your ship’s performance.

For each particular task, a solution has been defined that

- **Horizontally** improves all of your ship’s operations
- **Vertically** integrates the ship’s information and security management end-to-end, facilitating better decision making
- At the same time, is designed for optimal ship specific maintenance and comes with assured further development over the whole life cycle.

Due to this unique combination of horizontal, vertical and life cycle dimensions, our solutions all carry the genes of an exhaustive and sustained plant productivity in their very core.

**For More efficiency. More Performance. More Power. Integrated Solutions from Siemens.**

- Remote diagnosis capability to recover more quickly from errors
- Operational reliability through proven components

SISHIP IMAC utilizes proven Siemens standard industrial components especially suited for rugged environments, such as SIMATIC controls, and thereby ensures the highest level of operational reliability. If a failure nonetheless occurs, the ship owner can take advantage of the worldwide spare parts service that Siemens offers over the entire life cycle of the system.

**Ergonomically accessing all processes quickly**

With the help of the HMI (human machine interface), it is possible to gain a quick and comprehensive overview of all processes on board under all operating conditions, even with very large systems. The status of the measuring points and the actual parameters of all processes are prepared in an easy-to-survey format by the system. If necessary, the ship personnel can intervene in processes using the HMI – security mechanisms thereby effectively prevent faulty operation and unauthorized or unwanted simultaneous access.

**The advantages of SISHIP IMAC at a glance:**

- A uniform, comprehensive system that assumes all control functions and minimizes interface problems
- Modular design that simplifies expansion and maintenance
- Increased system availability and operational reliability through utilization of standardized Siemens to industrial components (e.g. SIMATIC®), especially suited marine applications
- Investment security through upgrade options
- Web access to the system for owner and service purposes
- Advanced alarm handling to simplify operation
- Worldwide consulting and service availability