

On board ships with especial automation needs (cargo ships, cruise ships, large ferries, special ships), the powerful and reliable control system SISHIP^{CIS} IMAC assumes all alarm, monitoring and control functions. The special strengths of SISHIP^{CIS} IMAC are demonstrated in its ability to be scalable and even process a high number of measuring points. SISHIP^{CIS} 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^{CIS} IMAC – easily meeting even complex needs

The complex technologies of modern sea vessels 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.

The advantages of SISHIP^{CIS} 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 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

SISHIP^{CIS} IMAC

Integrated control system for ships with complex automation technology

Completely Integrated Solutions for Vessels

Marine Solutions

SIEMENS

SISHIP^{CIS} IMAC – our solution in detail

The control system SISHIP^{CIS} IMAC is specifically designed for automation functions on modern ships. Thanks to its modular designs, SISHIP^{CIS} 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 workload from the watch keeper
- Monitoring system enables overview of the respective process condition
- Parameters such as limit value, time delays or fade in / out can be changed online
- Web access enables even shore based staff to get online operational values from the ship



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.

SISHIP^{CIS} – Completely Integrated Solutions for Vessels

As a comprehensive industry-specific solution for seagoing vessels, our SISHIP^{CIS} 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, helping to make better-founded decisions
- and, at the same time, is designed for optimal vessel specific maintenance and comes with assured further development over the whole life cycle.

For More Efficiency. More Performance. More Power. Completely Integrated Solutions from Siemens.

- Possibilities for remote diagnosis to recover errors quicker
- Operational reliability through proven components

SISHIP^{CIS} IMAC utilizes proven Siemens standard industrial components, especially suited for rugged environment, such as SIMATIC controls, and thereby ensures the highest level of operational reliability. Should a failure nonetheless occur, 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 interface (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.

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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