Høglund IAS

Integrated Automation System

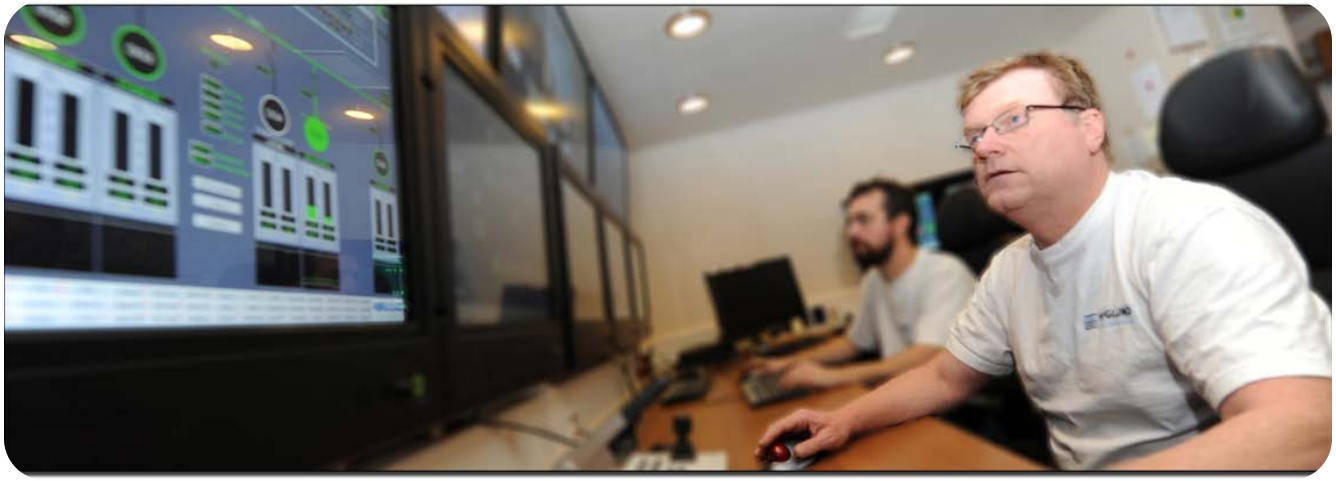
Høglund Integrated Automation System (IAS) is a highly flexible marine automation product, designed to meet the complete range of automation and control tasks on-board all types of vessels.

Benefits

· Well proven standard hardware
· High speed redundant communication IP network
· Low space and low power requirements
· Standard programming languages based upon the IEC 61131-3 standard
· Supports standard solutions for all commonly used marine components
· Extremely short application generation time - from database to running system in minutes
· Easy picture design and modification with standard tools and libraries
· Easy definable customer solutions for control logic and display design
· Interface for input/output data access from/to third party software
· Integrated logging system and playback facilities, both local/remote and online/offline

Functions

· Alarm and Event monitoring
· Extension alarm system (E0)
· LNG Control
· Cargo Control
· Ballast Handling
· Tank Sounding
· HVAC Control and Monitoring
· Playback - Integrated logging of all signals.



Marine automation
Where it matters

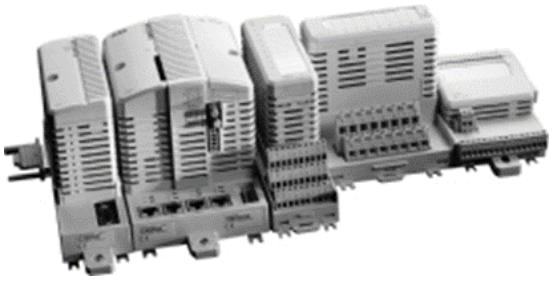
høglund
MARINE AUTOMATION

Proven concept, reliable hardware
The IAS is developed using standard hardware components available worldwide.

Easy debugging and troubleshooting
By utilizing the GMR HMI software with all it's troubleshooting capabilities.

Playback
As the system is based on HMA concept, it comes with data logging of all process variables every second.

Seamless integration
By selecting a HMA control system for your equipment you will be able to mix and match with other HMA solutions.



Process Controller
Høglund's IAS is based on ABB AC800M Process Controller together with the ABB S800 I/O system. The AC800 is modular and scalable in order to fit into any system, from smaller systems containing a few hundred signals to larger systems with several thousands of signals. Profibus is used for I/O communication. Distributed I/O are preferred. Both cable and installation costs are reduced when IO cabinets are located close to process equipment. The AC800 supports most common used protocols, and can also be setup as a redundant system. The controller is using a redundant IP network with communication up to the Operator Station

Operator Station
All our operator stations are windows based, and communicates with the process controllers through OPC standard. All operations, alarm and event handling and playback analyzes will be handled from these operator stations. Mimics will be designed in our own developed software. They are easily created and presented using standardized display components. For special needs, customized display components can be created.

Remote connection
If remote connection option is installed, HMA can logon. Generally 95% of all problems can be solved using remote connection, reduces MTTR (Mean Time To Repair) as well as having reduced service and travel costs.

Customer Design
After basic training sessions, customers may design and generate the total system without any engagement from HMA at all. HMA will provide the customer with all necessary generation tools to build a total project. If the project requires special Solutions not included in the library, HMA will create them and send library updates directly to customer.

Marine approvals
DNV GL
ABS
BV
LR

Environmental specs
Air 0°C-45°C
Water ingress protection field equipment IP54

Electrical
Supply voltage 230V AC or 24VDC

Marine automation
Where it matters

høglund
MARINE AUTOMATION

Åshaugveien 39 | 3170 Sem | Norway | P:+47 334 14 150 | orders@hma.no | hma.no