ULSTEIN IAS®
INTEGRATED AUTOMATION SYSTEM

- Intuitive operation
- Predefined functionality
- Customized mimics
- Redundant and modular architecture
- Remote service

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ULSTEIN IAS® - KEY FEATURES

**Intuitive operation**
- Developed in close cooperation with customer.
- Customized mimics.
- System drawings in PDF available on mimics.

**Quality**
- Predefined and tested functionality.

**Architecture**
- Built on Ulstein modular architecture.

**Standard functionality**
- Advanced alarm system.
- Diagnostic tools (including remote service).

**Customized functionality**
- Functionality can be implemented through add-on modules.
- Interface to external third part system.

**Design**
- Integrated Automation System with Ulstein modular architecture.
- Redundant architecture in all levels.
- Distributed IO cabinet reduce installation cost.
- Modular architecture makes the system applicable for a wide range of applications.

**Integration**
- Open and modular design, easy to integrate with other systems.
- Use standard communication protocols.
- Capable of handling a huge amount of data at high speed.

**GENERAL DESCRIPTION**

ULSTEIN IAS® is an integrated automation system built on Ulstein modular architecture. This architecture makes the system applicable for a wide range of applications. One of the system key features is redundant architecture in all levels. The system use standard communication protocols and are therefore easy to integrate with other systems.

ULSTEIN IAS® distributed IO cabinets have dual power and IO groups. Main and standby functions can therefore be connected in the same IO cabinet. This features will increase the system flexibility and reduce installation time and cost.

ULSTEIN IAS® operate with standard hardware and software. This give the customer quick access to spare parts world wide and maintenance cost will be reduced. The ULSTEIN IAS® system can easily be upgraded when new functionality is available.

ULSTEIN IAS® advanced alarm system and diagnostic tools are included as a part of the standard functionality. Customized functionality can be implemented through add-on modules. Standard interfaces are predefined for several external systems.
ULSTEIN IAS® STANDARD FUNCTIONALITY

ALARM SYSTEM

• Alarm Monitoring System
  The integrated alarm monitoring system gives the correct status of all main functionalities onboard.

• Bridge Alarm System
  Bridge groups are indicating critical system conditions.

• Extended Alarm System
  If a vessel shall be able to operate with unattended engine room, it has to be equipped with an EO system.

• Dead Man System
  The Dead Man System is mandatory if an engineer is working alone in the engine room.

ULSTEIN IAS® ADD-ON FUNCTIONALITY

• Tank Sounding
• Cargo Operation
• Hydrophore
• Passive Stabilization System
• Fire Fighting
• Fire Detection System
• Machinery
• Propulsion
• Cooling
• Running Hours
• Hydraulic Power Pack
• Helideck Monitoring
• Vessel Performance Monitor

ULSTEIN IAS® DIAGNOSTIC TOOLS

• IO Browser
  The IO Browser is a tool which allows the user to view and configured a user defined group of signals.

• Real Time Tracing
  The real time tracing tool is useful during troubleshooting.

• Trending
  The trend (real-time + History) tool is useful during troubleshooting and diagnostic.

• Remote Service
  Local and remote service in online operation via satellite, GPRS, other communication channels.

ULSTEIN IAS® POWER MANAGEMENT SYSTEM (PMS)

• Integrated part of main Switchboard
• Seamless integration
• Modular design with high reliability
• Load sharing control separated from PMS

ULSTEIN IAS® INTERFACED SYSTEM

• Maintenance System
• Voyage Data Recorder
• Fire Alarm System
• Power Management System
• Drives & Propulsion
• Main Engines & Generators
• Cargo Control System
• Load Calculator
• Other System
POWER & CONTROL

Today’s shipyards and shipowners require complex technological solutions. ULSTEIN meets customer demands in the areas of navigation, integrated communication and power & control systems worldwide. We develop, maintain and manage cutting-edge marine and industrial solutions for electronics and power control for ships.

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ULSTEIN’S expertise in developing system solutions for shipyards and shipowners worldwide has resulted in a broad portfolio of marine electronics, power & control products. We also have the advantage of being able to integrate individual products into larger systems. In addition to our knowledge of control systems for advanced vessels, we have solid industrial market competence. Activities concerning product and system deliveries are aimed at the international marine market, providing product development, production, sales and service.

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