INGESHIP IAS

INGESHIP Solutions
Integrated Automation System

INGESHIP™ IAS stands for Ingeteam's Integrated Automation System for marine applications: Being part of part of the INGESHIP™ automation platform IASfeatures all necessary monitoring and control functions and delivers enhanced functionality of all electrical systems. INGESHIP™ IAS can be used as a stand-alone Integrated Automation System, extended with Power Management, Tank Gauging System, DLM calculations, Water Ballast System Control and many other integrated engine room or navigation functions.

Depending on the vessel type, our experience includes solutions for:

Trailing Suction Hopper Dredgers
Subsea Rock Installation Vessels:
- Fall-Pipe and Mining Vessels
- Side Stone Dumping Vessels

Anchor Handlers
Cable Layers
Pipe Layers
Jack-Ups

Perfect solution for medium and large vessels

The main components of IAS are the following

- Distributed Input/Output units connected in a redundant field bus.
- Distributed Control Processors that control the remote Input/Outputs units.
- Workstations providing the Human Machine interface.
- Extension Alarm System.
- Extended functions such as Water Ballast Automatic Control, Power Management System, etc.

The system performs the following control and monitoring functions

✓ **Alarm System**
- Alarm Monitoring System.
- Extended Alarm System
- Dead Man System
- Bridge Alarm System

✓ **Control engine room and cargo system**
- Tanks sounding.
- Control of pumps, valves, fans, etc.
- Automatic Draught control system.
- Ballast control system

✓ **Engine monitoring**

✓ **Propulsion control & monitoring**

✓ **Diagnostic and maintenance tools**
- Network diagnostics
- Long time data trending
- On-Line documentation and P&ID drawings
- Data export on CSV files for further analysis
- Remote service
- Running hours

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