

AVENTICSTM MAREX AMC Alarm and Monitoring Control System

Know your Vessel's Vitals for Safe Ship Operation

PRODUCT



Features

Broad alarm and monitoring control system offering high-performing, heavy-duty hardware, and flexible software components.

Clear, continuously available overview on data of integrated systems as engines, transmissions, generators, tanks, pumps and more.

Fast processing and alarming enable quick reaction of the crew.

Turnkey solution from the specification to delivery, commissioning, and service.

Benefits

- Scalable, modular system from compact to highly available, fully redundant solutions
- Complete monitoring and control solution in combination with MAREX OS propulsion control
- Customizable screen layout with international character library
- Self-monitoring software
- Cloud interface and data logger
- Local servicing from any laptop, remote commissioning

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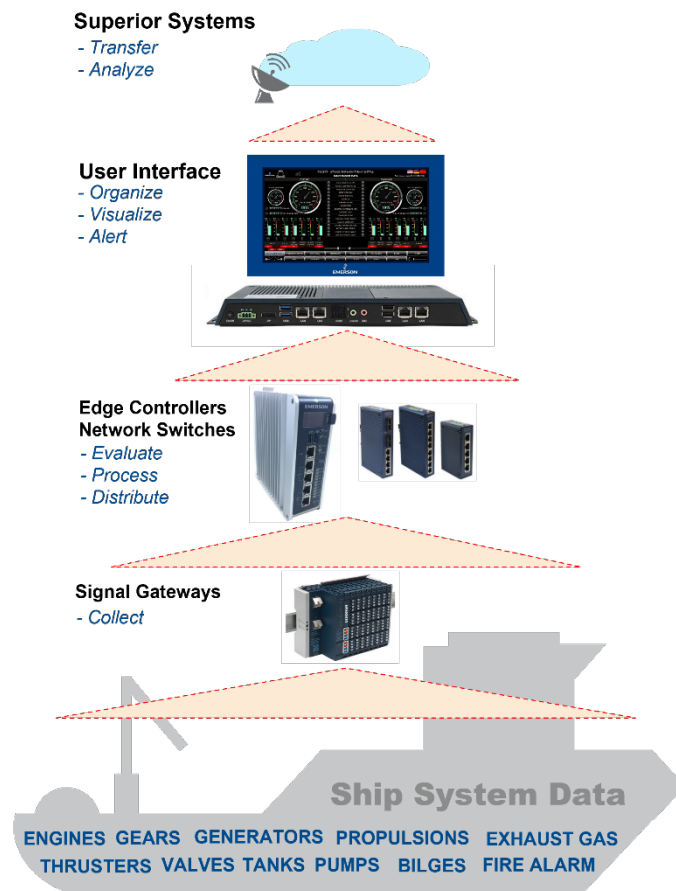
Manage Your Vessel Safely with Reliable Data Monitoring and Alarming

A backbone of safe and energy-efficient ship operation, MAREX AMC informs officers and engineers about the status of integrated systems, detects critical conditions, and generates alarms. The data is continuously available and clearly arranged on displays with touch screen operation, providing a fast and easy overview of the ship status.

MAREX AMC systems are modular. I/O-modules serve as gateways for the signals from the integrated systems. Processors and network switches process and route the data. PanelPCs or displays serve as user interfaces. The service software can be loaded on any computer allowing for quick adaptations on board. The system scope ranges from compact to fully redundant with duplicate components.

Key facts

- Pre-adjusted system
- Internal monitoring and diagnosis
- Certified software
- Wide selection of monitors 7 – 24"
- Sunlight readable monitors
- Alarm history overview
- User and access rights management



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High-Performing Software

MAREX AMC uses Movicon.NExT™ Software, Emerson’s most innovative and flexible software platform, scalable to the requirements and ready for SCADA systems and edge computing. Movicon.NExT™ places particular focus on the performance. The communication speed, the real-time data management and graphics optimization with the graphics accelerators and DirectX guarantee the best technology without sacrificing performance.

Movicon.NExT™ works with the innovative OPC UA protocol technology. This provides unparalleled security and performance and enables maximum connectivity with any compatible device or application module. Sophisticated user management ensures maximum security.

PanelPCs and Displays Designed to Maximize User Experience

MAREX AMC offers most flexible user interfaces from simple displays to PanelPCs combining display and workstation into a compact unit. The portfolio ranges from 7" to 24" screens in a widescreen format, with 7" to 15" models also available with outdoor sunlight readable screens. The modular nature of the unit offers a substantial amount of flexibility in configuring. For instance, you can easily swap an outdoor screen for an indoor screen, change screen sizes, or simply replace a damaged screen, while utilizing the same computing unit.

Emerson’s PanelPCs combine design, durability, and power in an ultra-slim package perfect for marine workstations. The capacitive, multitouch screens can be used with personal protective equipment. Furthermore, the outdoor rated sunlight readable screens provide brightness ratings nearly double that of the brightest smart devices. The optically bonded screens feature UV protection which vastly reduces reflections and glare. The wide screen display provides operators with vivid, clear images for a more complete and enhanced visualization.

The MAREX AMC PanelPC and display portfolio operates effectively in temperatures as high as 65°C and as low as -20°C indoors or outdoors.



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Powerful Controllers Perfected for Harsh Environment

Emerson's compact, reliable, and powerful controllers come with Quad Core processors, 16 GB RAM, featuring fast SSD storage, strong graphics, and enhanced security.

All aspects of the controllers implemented in MAREX AMC have been engineered for reliability in harsh environments, from the use of all industrial grade components to fanless design. To help keep data and operations secure, the MAREX AMC controllers utilize Trusted Platform Module 2.0 (TPM) and Microsoft Secure Boot technology. Security coupled with strong shock and vibration resistance makes MAREX AMC a strong offering for marine applications.



Ship Control Solution from a Single Source

Emerson's AVENTICS™ marine systems and components have been used successfully on ships for years. The class approved MAREX OS propulsion control adapts flexibly to the vessel offering supreme safety and comfort features. MAREX AMC and MAREX OS combine to form an extensive, robust solution for reliable, safe, state-of-the-art ship control which meets the highest demands.

Marine Experts at Your Side

Emerson's experts support you right from the start in developing the specification, project engineering and documentation, as well as commissioning and service.

The Windows-compatible software runs on any laptop making service and adjustments easy.

Emerson provides a global network of sales and service partners.

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