myNORIS – *Straightforward*
Alarm, Monitoring and Control System

The system concept

The myNORIS alarm, monitoring and control system is our straightforward solution for small and mid-sized applications on smaller vessels, such as tugboats or fishing vessels. It is used to monitor and control ship technology, e. g. engines, generators, pumps, valves, ventilators or other auxiliary systems. It is a central PLC based system with one display CPU master unit and I/O slave units for data acquisition.

The intuitive and user-friendly visualisation software shows the system information comfortably both with numerics and graphical objects like bargraphs, analogue indicators, etc. The system configuration is easy and straightforward and can be uploaded e. g. via Microsoft Excel® File and USB. This minimises the commissioning and service costs. Limit values, hysteresis, fade-outs and other settings can be easily made at the master display and are protected from unauthorised access by a customisable user right management. Standardised interfaces such as Ethernet, MODBUS RTU/TCP, NMEA or J1939 enable the interconnection with third party systems and offer maximum flexibility regarding system extension. Furthermore, the system is ready for remote access for secure data transfer to onshore servers or for service purposes and system updates.

Additional alarm extension available as option

The system can be extended with additional alarm displays for accommodation and bridge. Furthermore, it can handle the duty handover and thus, it complies with the requirements for unmanned machinery spaces.
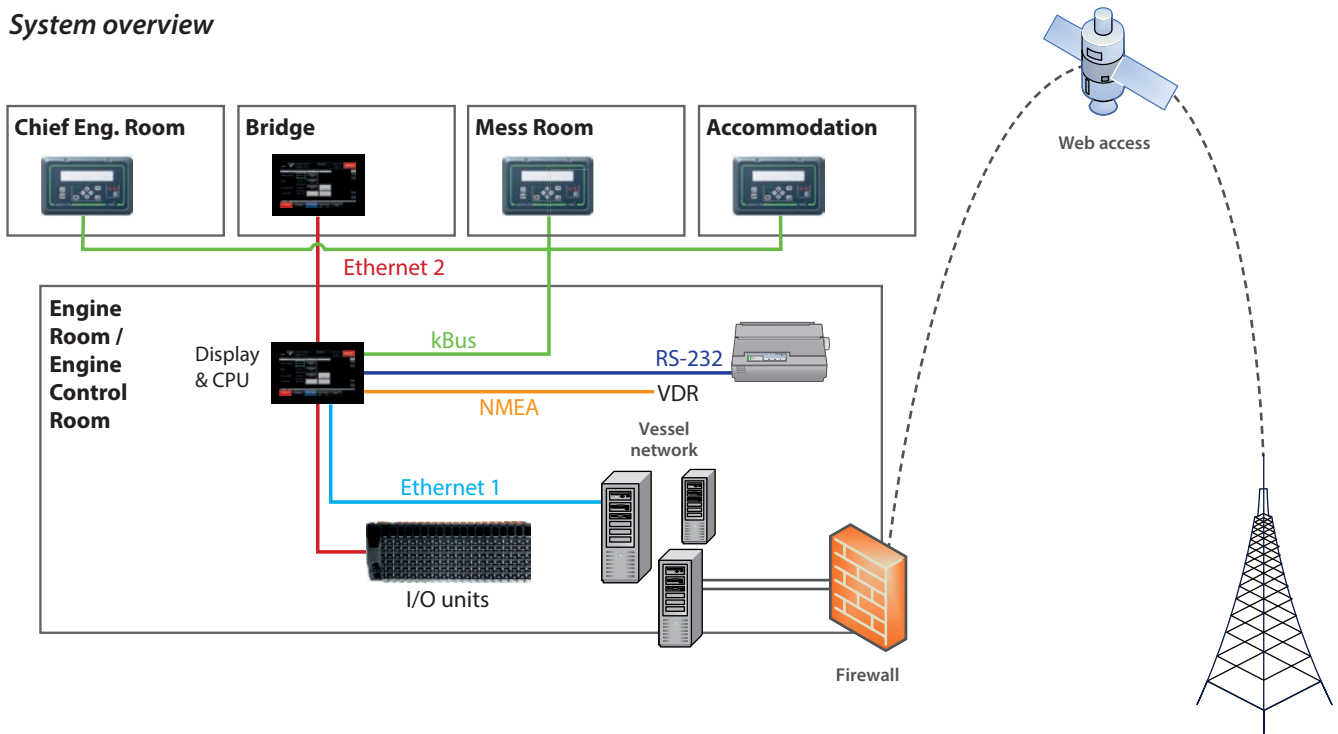
Your benefits at a glance

- Central and modular PLC-based system
- Intuitive and user-friendly visualisation
- Plug & Play components and spare parts
- Low prices on spare parts
- Commissioning and service-friendly
- Remote access for service and system updates
- For small and middle-sized vessel types, such as tugboats, fishing vessels

my NORIS Display Unit

System overview

Chief Eng. Room

Bridge

Mess Room

Accommodation

Web access

Ethernet 2

Engine Room / Engine Control Room

Display & CPU

kBus

RS-232

NMEA

VDR

Vessel network

Ethernet 1

I/O units

Firewall

System communication

The communication between the I/O units and the CPU display is realised via Ethernet. If necessary, further display units can be connected to the main CPU display, e. g. to show the system information on the Bridge. The optional accommodation displays are connected via kBus and handle the duty assignment. Of course, the system offers standard interfaces, e. g. RS232 for alarm printer or data logging and NMEA for VDR. If available, the system can be connected to the vessel network via Ethernet.

General features

- Compact and robust design
- Easy firmware and software update via USB
- Multiple interfaces:
  MODBUS, J1939, CANopen, Profibus, NMEA
- Up to 500 channels

Visualisation

- Modern and uniform look & feel
- Easy-to-customise graphical colour touchscreen display
- Intuitive, clear and easy to understand GUI
- Alarm list, alarm and event history and trend tables
- Graphical indication with gauges and bar graphics

Suitable for Your Application

- Control and monitoring of machinery like diesel engines
- Ship alarm, monitoring and control system for smaller vessels
- Subordinated monitoring, e. g. as fuel consumption monitoring
- Independent indication for vessel auxiliary systems like pumps, valves, HVAC, etc.

System extension

- Additional remote displays for decentral visualisation (e. g. bridge, engine control room)
- Alarm extension system for accommodation areas
- Mobile device support for visualisation (e. g. for local service)
- Alarm printer, dead-man system

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