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NAUTOCONNING (Ethernet) BOX-PC

System Description

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SAFETY NOTES:

- Warning!
  Take care during maintenance and repair work: avoid touching live electrical connections. The applicable safety regulations such as VDE, VBG 4, OSHA 1919 and other appropriate safety standards must be followed.

- The installation and first putting into operation may only be performed by trained and qualified personnel.

- Maintenance and repair work may only be performed by trained and qualified personnel having knowledge of the national safety regulations for this type of equipment.

- The equipment can be damaged!
  Parts may only be replaced when the supply voltage is switched off.

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Table of Contents

Diagrams:

See Cable Diagrams and Connecting Diagrams (according to order)

Additional Descriptions:

Navigation Data Manager	3884E
Conning Display	4094E
Alarm Transfer System	4095E
Computer	4090E

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1 General

NAUTOCONNING is the central display and data management system for the ship's command.

Allying with Radar and ECDIS (Electronic See Chart) NAUTOCONNING can be placed in a Multifunction Console (MFC).
The switching over between these applications taks place with a software switch (MFC Switch) placed on the top corner right of the display.

1.1 Tasks and Performance features

- Read in and adaption of *Navigation Data*

  - Log
  - NavRec
  - Wind
  - Depth
  - etc.

- Read in and adaptation of *Sensor Data*

  - Compass
  - Autopilot
  - ECDIS
  - etc.

- *Sensor Monitoring*
  The Nautoconning software allows specific Alarm Level Settings for sensors which will release alarms on *Alarm Transfer System* ATS.

- *S*ensor *Selecting*
  Redundant sensors can be selected from a scrollable list which indicates all sensors and their current status.

- Registration and management of *alarms* and the status of system devices

- Built-in Watch Alarm Timer, configurable for W1-applications
  (Function of *Alarm Transfer System* Conning Display)

- Redundant *Central Alarm Panel* functionality for W1-applications

- *Display* of the registered data, alarms and procedure sequences (tracking) in corresponding *monitor displays*:

  - NAVIGATION
  - DOCKING
  - SENSOR
  - ALARM
  - ONDUTY
  - RECORD

- *Distribution* of the data and alarms to connected devices.

1.2 Construction

(see Figure: 1-1)
NAUTOCONNING is constructed modularly and can be adapted to the particular tasks of different types of vessels.
This applies to interfaces to other equipment, sensors and to screen displays.

NAUTOCONNING basically consists of

- *Computer* (see attached description no. 4090)
- *Navigation Data Manager* (see attached description no. 3884)
- *Conning Display* (see attached description 4094)

The NAUTOCONNING-,ECDIS- and RADAR-Application can be used in one console or computer. These option is called Multifunction Console MFC.

As an option an *Alarm Transfer System* can be added (see attached description no. 4095).
An Alarmmanager enables NAUTOCONNING to integrate an Watch Alarm System with Alarm Transfer System and Central Alarm Panel acc. to DNV.

The Ethernet Switch is used as Data Distribution for the NAUTOCONNING Ethernet System.

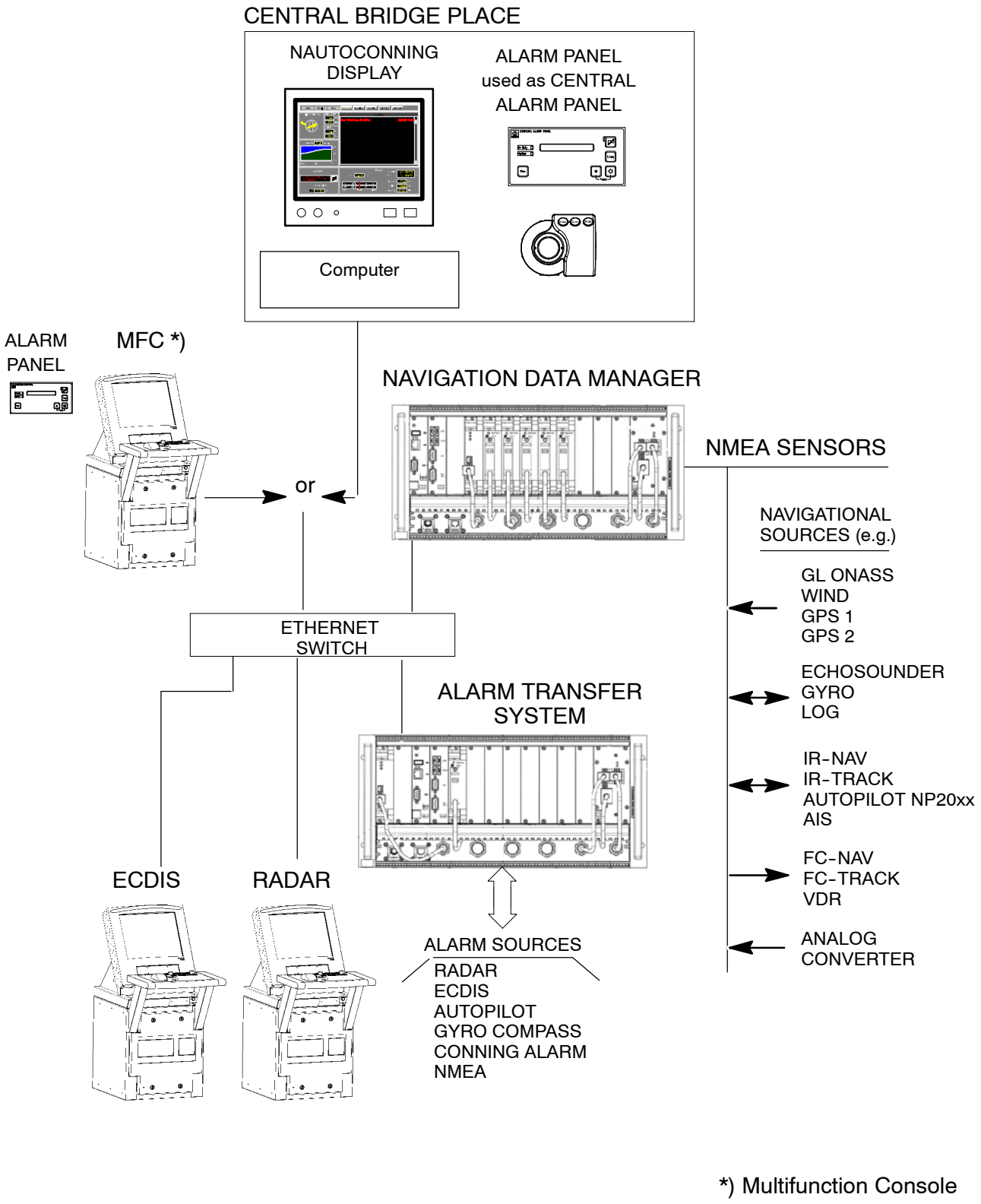

Figure: 1-1 NAUTOCONNING SYSTEM (Overview)