MAREX OS III

NANNI control systems can be found on all type of ships a round the world. work vessels with classification, passenger Liners, coastal cargo ships and even yachts rely on engineering expertise Made in Germany.
Regardless of which propulsion concept is required - the reversing gear system, the controllable pitch propeller system, or even new drive concepts such as hybrid systems are using our most proven product: the Marex os 111. Advantages :

- Easy installation thanks to pre-assembly
- System reliability thanks to one self-monitoring CAN bus per drive train
- Bridge components can also be used in the outside area
- Approval of drawing and FAT upon request

DESIGN
Unique
Functional
Ergonomic

FLEXIBLE
Modular system architecture
Independent of the type of drive
Easy to install

FEATURES
No project-based programming
Customized by parameter settings
Optimized operating forces

MAREX OS III
Manoeuvring system

BENEFITS

LIFE CYCLE MANAGEMENT
- Consultancy du ring design and refit
- Commissioning and training
- Service and refitting of functions with worldwide network

CONSULTANCY BY EXPERTS
- Technical feasibility
- Project work
- Site inspection including life cycle management

WORLDWIDE NETWORK
- Project work
- Service
- Training
- Sales including consulting

INTEGRATED FUNCTIONS
- Engine control, speed curves and engine stall protection
- Gear operation, reversing maneuver curves
- Control of PTO and PTI, Trolling and Slip & Grip
- Multi-engine systems
- Calculated ship speed
- Shaft brake control
- Internal software PLC to add special functions
- Standard interface for OP system, Autopilot and VDR

COMPONENTS

FEATURES

CONTROL HEADS
Illuminated scale, electric shaft. various designs, different propulsion plants, integrated keypad, triple-engine version available

5. 7" DISPLAY
Freely configurable, 4 illuminated push buttons, digital 4-axis jog dial, readable in the sunlight. ergonomie design, 2 propulsion plants in one display

OPERATING AND INDICATION MODULES
Indication of remote control data & data input

MARINE PROPULSION CONTROLLERS
Single hardware component for different types of propulsion systems, preconfigured functions, software PLC function, error log with real-time stamp, integrated keypad and display

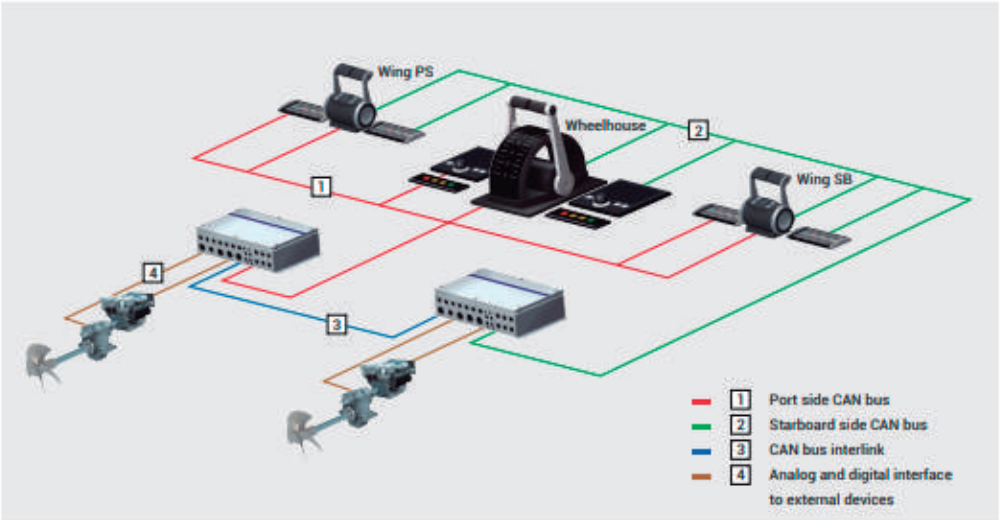
EXTENSION MODULES
VDR interface, NMEA interface, pitch controller for CPP

ACCESSORIES
Prefabricated connecting cables & terminal blacks

ACTUATORS AND VALVES
Electrical components for mechanical or pneu matie control of variables such as gear shifting, speed, or pitch setting

SERVICE TOOL
Laptop-based parameter transfer and optimization, transfer of parameters between ships within the same production line

SYSTEM



MAREX ECS

Easy to operate with a unique design and extensive options: the Marex ECS meets the highest production and quality standards and provides captains with maximum reliability, as proven by endurance testing with one million lever actuations. The Marex ECS contrais single or twin gasoline and diesel engine applications from up to four contrai stations. Trolling gear contrai is available as an option.
The system is designed for small pleasure and work boats and is compatible with ail common engine types and reversing gears. Its hardware originales from proven automotive applications.
The well-established CAN bus technology ensures reliable communication between the components. Sophisticated autodiagnostics inform the operator of the current operating state. An alarm log is provided for subsequent evaluation.

DESIGN
Unique
Functional
Ergonomic

USER EXPERIENCE
Wi-Fi web server
Auto-config
Language-independent icons

SAFETY
Proven automotive components
ABYC-compliant
Backup Hall sensor

MAREX ECS
Manoeuvring system

DESIGN

Excellent design supports operation in all situations. The straightforward, timeless style of the Marex ECS goes well with any ship design. Unmistakable keypad icons ensure intuitive operation.

- Exclusive chrome surfaces, contrasted with black
- Language-independent icons
- Subtle backlight illumination
- Dynamic, asymmetric levers

USER-FRIENDLY

With the Marex ECS, NANNI is introducing one of the most innovative engine remote controls with integrated Wi-Fi to the market. Its sophisticated technology combines complex functionality with easy handling resulting in reduced installation and commissioning efforts and uncomplicated operation features. It can be adjusted wirelessly via Wi-Fi without additional software and hardware adapters, using the standard web browser on any smartphone, table!, or laptop. The guiding browser interface ensures smooth commissioning.

- Market innovation: integrated Wi-Fi
- Web server access independent of hardware and operating system
- Auto-configuration
- Plug-in solution
- Ergonomie keypad design

RELIABLE

MAREX ECS BASIC

Reliability made in Germany. Even the basic version of the Marex ECS sets benchmarks with its dependable function with the highest automotive production and quality standards. All components were developed in accordance with ABYC specifications and feature optimized safety in terms of electromagnetic radiation and environmental compatibility.

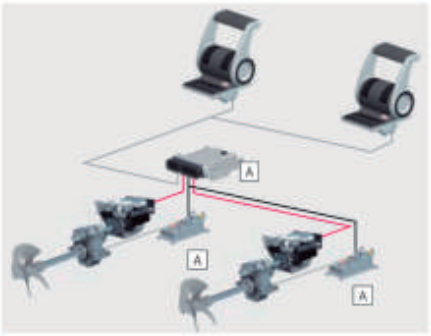
- Proven automotive control unit
- Sophisticated actuator
- ABYC-compliant
- Alarm log
- Manual operation of actuator
- Engine stall protection

MAREX ECS ENHANCED

The enhanced system features a separate backup Hall sensor which makes it even more reliable and safe. The control of the boat will be maintained, even if CAN communication is interrupted. In this version, each main propulsion is equipped with its own Marex ECS control - ensuring top-fail performance and system availability. *Additional functions exceeding basic version Proven automotive control unit*

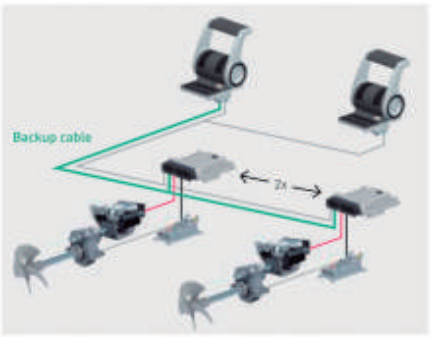
- Backup Hall sensor
- One control per propulsion
- Gear feedback monitoring
- Trolling gearbox control

ABYC- COMPLIANT



A - Automotive components

BACKUP HALL SENSOR



TIME-SAVING START-UP

MAREX OS 3D

The joystick system Marex OS 3D takes the stress out of maneuvering in tight spaces. The intuitive ship control moves your ship smoothly and responsively.
It's a simple principle : The boater pushes or twists the joystick and the ship will mirror the movement exactly. Unwanted movements due to crosswind or current are being automatically compensated by a sophisticated vector control and integrated compass. Marex OS 3D is based on a Marex OS III remote control system. This combination allows for the integration of up to six joysticks stations. Oifferent control station variations are available, from stand-alone joysticks to stations which pair the joystick with a Marex OS III-control head. Oepending on the configuration, two joystick operation modes can be selected: thruster-mode only the thrusters will be operated by the joystick while the engine control remains with the Marex OS III -control heads ; 3D-mode all driving units including thrusters, engines and steering gear will be controlled by your fingertips. Whatever the specific equipment on the ship, the Marex OS 3D joystick system has the right interface for all types of engines, gearboxes and thrusters. Marex ship controls represent a state-of-the-art system solution including engine remote control, joystick operation and alarm and monitoring system.

DESIGN
State-of-the-art design
Ergonomic

USER EXPERIENCE
Flexible interface
Intuitive operation
Turnkey-solution

FEATURES
Integrated thruster interface
Suitable for all common engines & gearboxes
Oelivery, engineering, and start-up out of one hand

MAREX OS 3D
Manoeuvring system

OPEN-SYSTEMS WITH FIRST CLASS COMPONENTS

FEATURES

JOYSTICK
Its ergonomie shape is perfect for fingertip operation and provides effortless maneuverablilty with confidence and ease.

VECTOR CONTROL
The Marine Propulsion Controller MPC 30 vector control unit is the heart of the Marex OS 3D-system. It processes the commands coming from the joystick and performs the vector calculations necessary to control the main propulsion and thrusters.

COMPASS
When the joystick is used as a fingertip control to move the ship in any direction - sideways, diagonally or turning on the spot - the electronic compass helps to suppress unwelcome movements due to crosswind or current for example.

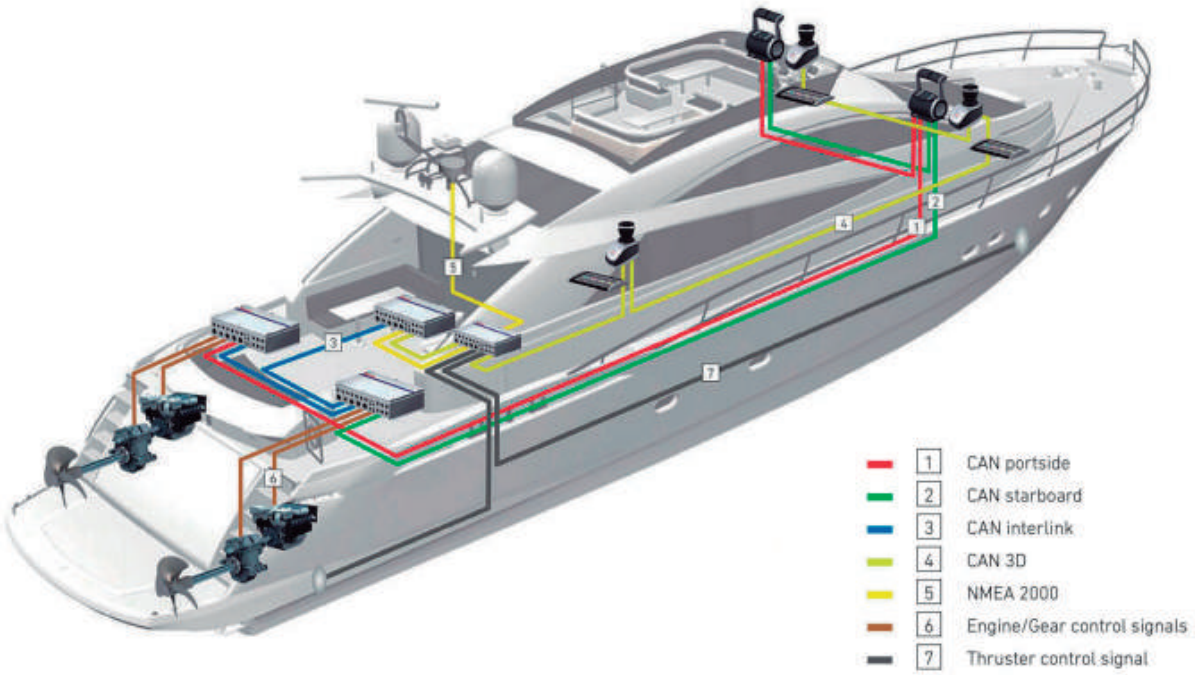
FLEXIBLE INTERFACE
In addition to the flexible Marex OS III MPC interface for engines and transmissions, the Marex OS 3D joystick system offers an NMEA 2000 interface, as well as analog or digital signals for all thruster interfaces.

OPERATING MODULE
Functional and room-saving, the CAN operating module type 242 provides four keys to operate essential functions. Additional modules are available which will be configured according to your requirements.

TURNKEY SOLUTION
Complete delivery of all remote control components as well as engineering and start-up from a single source.

FLEXIBLE CONFIGURATION
Fitting your ship like a glove

EASY-TO-INTEGRATE SYSTEM SOLUTION
Where safety meets comfor



MEREX