# AVENTICS

# MAREX OS II CPP
# FOR A SAFE JOURNEY

# Marex OS II CPP – designed for an economic operation of controllable pitch propeller and water jet drives

With its modular system architecture the Marex OS II CPP is a cost-effective remote control system which can be adapted to the propulsion system flexibly and easily. This means consumption-optimized settings as well as comfortable and safe control of controllable pitch propeller and jet drives.

**A system with sophisticated functionality**

Acceleration curves for rpm and propeller pitch, automatic load control and the optionally available pitch control – all these are features characterizing the Marex OS II CPP. An additional highlight is the single-lever operation of rpm and pitch. Differenciated curves allow an optimal adaptation to the respective driving mode and thus a still more economic and safe ship operation.

- Acceleration curves for rpm and pitch
- Automatic pitch reduction in case of overload
- Freely programmable keys and functions via integrated PLC functionality
- Optional pitch controller
- Possibility to connect external systems like DP, VDR
- Control of power take-offs (PTO)
- High-resolution display to indicate the most important remote control information

**Fields of application**

The modularity allows a configuration adapted exactly to the requirements of ship operation for single and multiple-engine operation. All engines can either be operated separately or upon key pressure jointly with one control head. Due to the modular design and the integration of innovative software modules the Marex OS II CPP can be adapted flexibly to different ship types. In this way small unclassified systems as well as complex systems for leisure time and professional shipping can be realized.

- Crew boats for wind farms
- Workboats for fish farms
- Ferries with controllable pitch propeller or water jet
- Sailing yachts, large sailing ships
- Fishing boats, authority vessels
- Freight carriers, miscellaneous

## Higher comfort – less costs.

### Scope of services

- ✓ Advice
- ✓ Project engineering of the system
- ✓ Classification of the system

- ✓ Commissioning
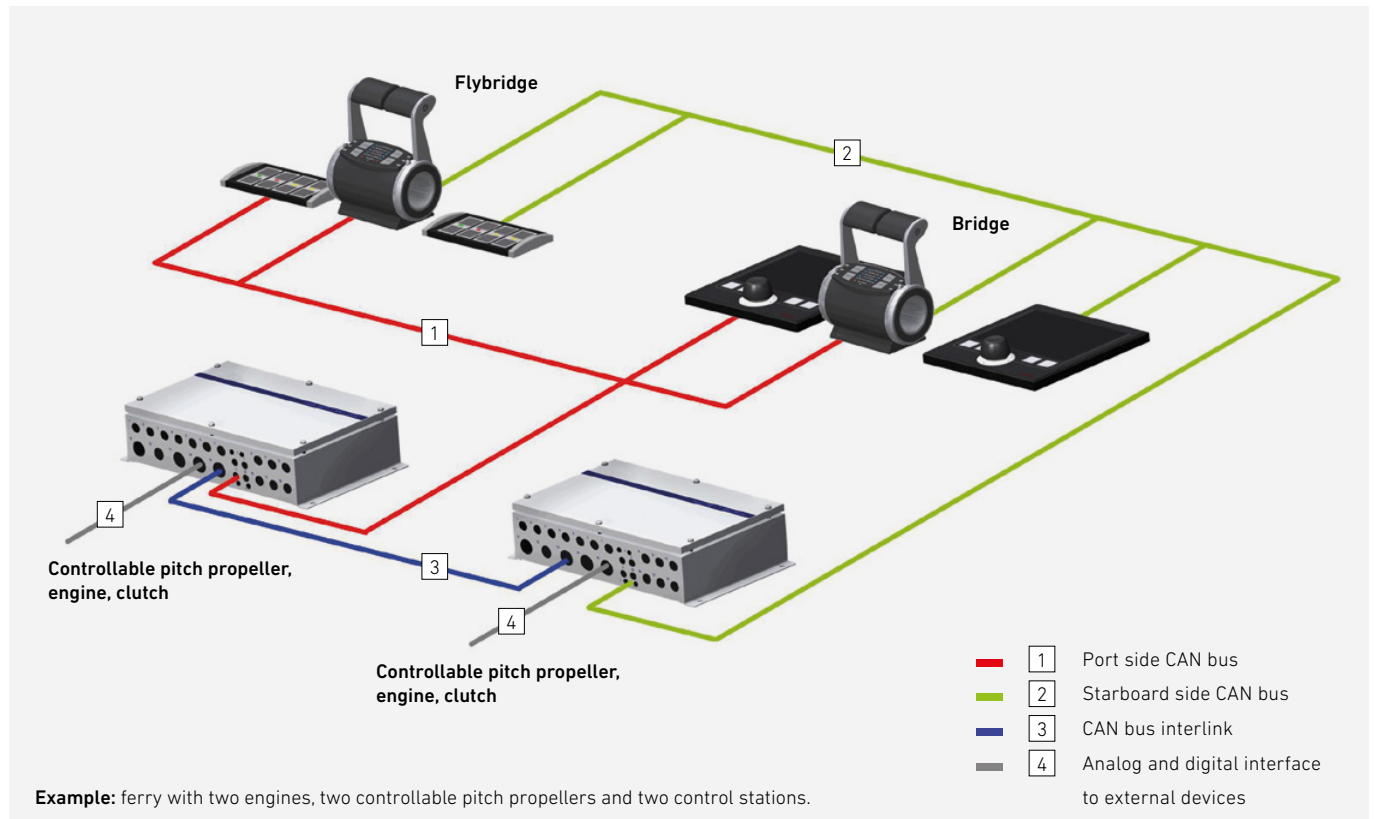- ✓ Worldwide service
- ✓ Training

**Professional attendance from the beginning**
With Marex OS II CPP AVENTICS offers you the complete remote control package including classification. The remote control is independent from the propulsion system's manufacturer and can be adapted to all ship types. We undertake the planning and project engineering from the counseling interview to the commissioning. After the commissioning our worldwide service network guarantees you a maximum of safety and availability.

We offer specific product trainings for project engineers, commissioners or service technicians.

# Optimized for all driving situations

**Flybridge**

**Bridge**

2

1

4

**Controllable pitch propeller, engine, clutch**

3

4

**Controllable pitch propeller, engine, clutch**

| | 1 | Port side CAN bus |
| --- | --- | --- |
| | 2 | Starboard side CAN bus |
| | 3 | CAN bus interlink |
| | 4 | Analog and digital interface to external devices |

**Example:** ferry with two engines, two controllable pitch propellers and two control stations.

**The components for an individual solution**
All components are designed ready to plug in:
install, switch on, adjust – finished.

A serial CAN-bus is used for communication. This ensures an extremely safe control process. Information from the safety system can be integrated into the control process.

- Control heads for a combined setting of rpm and pitch available in different sizes, designs and optionally with lever follow-up
- Operating modules to control and display special functions
- Indication modules to display rpm, propeller pitch and direction
- High-resolution display to indicate rpm, pitch and other important information

**We design and manufacture in cooperation with**

BUREAU VERITAS · Lloyd's Register · DNV · RINA · GL CERTIFIED · ClassNK NIPPON KAIJI KYOKAI · CCS

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