

Marex OS II – Optimized for fishing and inland vessels

The economic remote control for your application



Marex OS II – The control system ready to connect for fishing and inland vessels with single-engine and multiple-engine systems.



marex OS II

In Hanover, Germany, Bosch Rexroth produce electronical remote controls for ship propulsion systems.

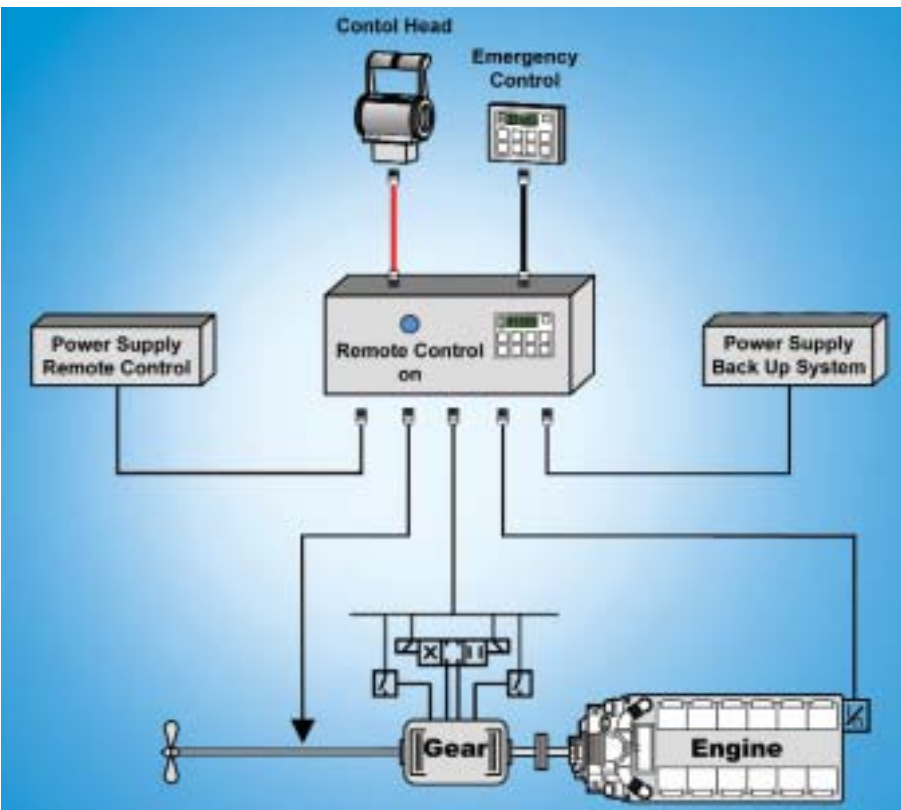
Profiting from the experience gained within more than 40 years, Bosch Rexroth developed the modular remote control system Marex OS II. With the Marex OS II, Bosch Rexroth provide a technologically well-engineered system for fishing and inland vessels. No matter whether for reversing gears or controllable pitch propeller. Ready to connect, space-saving and economic.

The individual solution

The schematic diagram shows a typical example of a remote control for inland ships with one engine propulsion system. In case of multiple engines (2, 3, 4 ...), the system is set up several times accordingly. There, all engines can either be operated separately or, by means of pressing a key, conjointly from one control head lever. All components are ready to connect, which simplifies the installation in new buildings and retrofits. Wiring faults are avoided: just install the system, switch it on, make the necessary adjustments and commission the system – that's all.

The components

- Control head to set rpm and gear direction
- Back-up panel - on the bridge and in the ECR - to indicate the shaft speed and direction during remote control operation and to operate the propulsion system in case of a remote control failure
- Ready-to-connect cables from the control unit to the control station
- Ready-to-connect cables from the control unit to the speed governor and reversing gear
- Speed sensor to pick up the shaft speed
- Separate power supply of remote control and back-up system



The system

Marex OS II stands for "Open System". Due to its high grade of modularity, the remote control can be adapted easily to all particularities of the propulsion system.

- Adapted to the specific needs of fishing and inland vessels
- Flexible in the adaptation to the propulsion system
- Redundant emergency control system

Engine characteristic lines for economic operation, overload control and adjustable delay times for smooth and efficient gear shifting are only a small extract of the functions the Marex OS II provides.

The technology

The remote control's components are connected by means of pre-confectioned cables. A serial CAN-bus serves for communication purposes. The CAN-bus ensures an extremely secure control procedure. The shaft speed and direction can be indicated by means of the display in the back-up panel. Information from the safety system can be integrated into the control procedure.

- Little wiring effort
- Pre-confectioned electrical cables
- Devices ready to connect

Operating safety – certification

All components correspond to the highest demands of safety and fulfill the requirements of the most important classification societies.

E. g. endurance test

During this test the control head is actuated about one million times. Well-chosen materials as well as first-class quality make sure that the devices withstand this high grade of operation.

Further tests

Vibration, high-voltage, temperature, salt mist, EMC, inflammability, declination



Our products are developed according to the instructions of following classification societies

Germanischer Lloyd, LR, ABS, BV, Rina, Russian Maritime Register, Polski Register, Korean Register



Bosch Rexroth AG
Department Marine Technique
Bartweg 13
D-30453 Hannover
P.O. Box 91 07 62
D-30427 Hannover
Phone +49 - 5 11 - 21 36 - 2 51
Fax +49 - 5 11 - 21 36 - 1 62
www.boschrexroth.com



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