



SHIP CONTROL SYSTEMS

MARINE ELECTRIC SYSTEMS engineers a range of ship control and propulsion control systems. Designed to provide centralized monitoring and control of the ship's propulsion and machinery plant from the bridge and the engine room, these systems are either ACC (Automatic Control Certified) or ACCU (Automatic Control Certified Unattended). *Marine Electric* ship control systems represent the epitome of quality in rugged, state-of-the-art engineering. Advanced, solid state electronics, fail safe designs and ease of operation characterize these systems in both commercial and military applications. worldwide.

Marine Electric Systems ACC Ship Control Systems

This is a one man attendance monitoring alarm and control system having two different sources of power, comprised of one or more control stations and incorporating instrumentation with a multiplicity of selective manual and automatic remote control operation. Digital electronics effect flashing alarms. Steady alarms sound when a fault is acknowledged and until corrected, at which time the alarm ceases. A Bridge Control Station incorporates remote monitoring, alarm and control of propulsion plants, machinery and alarms for vital and non-vital functions. An emergency trip is designed into the propulsion control panel for machinery shutdown. Other alarm supervision includes fuel, lubricating oil and water tank levels, temperatures, pressures, RPM, pumps, lights and cylinder exhausts. Automatic main engine shutdown from vital malfunctions, engine overspeed or loss of lube oil. System also can include water tight door controls and indicators, boiler-re-ignition failure alarm, bilge, level and pump control, pitch control indicators, engine order telegraph and standby batteries.

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Marine Electric Systems ACCU Ship Control Systems

These systems include all the features of our ACC systems with added functions required for unattended operation for a minimum of 24 hours under normal external (sea) and internal ship's condition. The ACCU system is more extensive with vital auxiliaries include in duplicate having automatic transfer functions and alarms actuated at the moment primary auxiliary equipment fails to perform properly. This system is also capable of monitoring, alarming and controlling auxiliary equipment in compliance with the minimum requirements of ABS and U.S.C.G.

Ship Propulsion Control and Automation Systems

Marine Electric Provides central monitoring and control of ship propulsion and machinery from the bridge and engine room with this system. State-of-the-art, fail safe electronic circuitry capable of operation in hostile marine environments is at the heart of these units. They can be used on vessels with the following propulsion configuration.

- One engine driving one propeller thru one reduction gear.
- Two engines driving two propellers thru two separate reduction gears.
- Two engines driving one propeller thru a common reduction gear.
- Multiple engines driving one propeller thru a common reduction gear.
- Multiple engines driving multiple propellers thru multiple reduction gears.
- Non-Reversing engine with controllable pitch propeller.
- Non-Reversing engine with fixed pitch propeller and reversing gear.
- Reversible engine with fixed pitch propeller.

Marine Electric Systems Control System Features:

- Solid state integrated circuits
- Front access plug-in circuit boards
- Front and rear access doors
- Interior lighting
- Fail-safe alarm circuits
- System mimic displays
- Built-in telephone communications between control stations
- Modularized construction
- Station to station control transfer
- Lamp dimmer controls (for Bridge)
- Compatible UPS System
- Designed for upgrading



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