



# MARINE PROPULSION CONTROL SYSTEM



**MPC-D  
System**



Regardless of your application,  
selecting the right control has never been easier.  
Just look at the specs



## **PRIME MOVER CONTROLS INC.**

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## SPECIFICATIONS:

### MARINE PROPULSION CONTROL SYSTEM OPERATING FEATURES

- Single lever combined speed and clutch control
- Available for single and multiple screw vessels
- Lever line-up transfer interlock with override
- Transfer lock to prevent accidental transfer to remote stations
- Engine warm-up mode
- Vessel slow speed mode
- Trolling valve control with reduced engine rpm ranges
- Synchronizing for electronic or mechanically governed engines
- Proportional reversing delay interlocks
- Proportional throttle boost
- Controlled acceleration/deceleration
- Clutch oil pressure throttle interlock
- Neutral start interlock
- Shaft brake control

### SAFETY FEATURES

- System accepts redundant power sources with internal switching and continuous monitoring
- Each control lever features a primary and secondary position sensor which is continuously monitored for drift and failure
- Back-up link between the port and starboard MPC-D control units allows control of both engines and clutches using only one MPC-D
- Full diagnostic capability from MPC-D and DCH control head
- Fault output to vessel alarm system
- Engine data link pass through to vessel alarm system

### OPTIONAL FEATURES

- The electric shaft option simulates a mechanical interconnection between the control head levers. Moving the lever at the station in command causes all other levers in the system to follow. This provides continuous alignment with the commanding lever position at all stations. Because all levers are continually aligned, control transfer between stations is smooth and “bumpless”.
- Extended low temperature operating range LCDs are available for outdoor stations

### TYPE 5500 DCH DIGITAL CONTROL HEAD

#### SPECIFICATIONS

##### Supply:

- Nominal 12 V<sub>DC</sub> or 24 V<sub>DC</sub>, max 9 V<sub>DC</sub> to 36 V<sub>DC</sub>
- Typical 175 mA @ 24 V<sub>DC</sub>

##### Environmental:

- Operating temperature -5 °C to +70 °C (Optional extended range from -25 °C to + 70 °C)
- Storage temperature -30 °C to +85 °C
- Protection classification IP65 above console, IP42 below console
- Meets or exceeds marine classification and regulatory requirements for Electromagnetic Compatibility, Vibration, Temperature, Humidity and Voltage Variation

#### FEATURES

- Backlit, dimable, 160 x 160 pixel graphical LCD
- Control and machinery status display (metric or imperial) and horn in each control head
- Shaft RPM indication is available on each control head LCD
- Four membrane buttons with intuitive software menu in plain English
- Dedicated station transfer button
- 140° control lever travel
- Housing and control levers available in black epoxy, chrome or dark nickel (charcoal)
- Custom colors available
- Optional electric shaft
- Station in command outputs for connection to auxiliary stations

### TYPE 8550 MPC-D MARINE PROPULSION CONTROL UNIT SPECIFICATIONS

##### Supply:

- Nominal 12 V<sub>DC</sub> or 24 V<sub>DC</sub>, max 9 V<sub>DC</sub> to 36 V<sub>DC</sub>
- Typical 150 mA @ 24 V<sub>DC</sub> (not including connected items)

##### Environmental:

- Operating temperature -25 °C to +70 °C
- Storage temperature -40 °C to +85 °C
- Protection classification IP54
- Meets or exceeds marine classification and regulatory requirements for Electromagnetic Compatibility, Vibration, Temperature, Humidity and Voltage Variation

#### FEATURES

- Accepts up to 15 stations for Type 5500 DCH Control Heads and Electro-Mechanical Actuators
- Connects directly to standard J1939, J1587/1708 and proprietary serial links for reading internal engine parameters
- Serial link for monitoring system status
- Other PMC control heads can be used in the MPC-D control system with Type 5500-5000 Remote Control Head Displays