

# MCS200 MARINE PROPULSION CONTROL SYSTEM



## OPERATING FEATURES

- Single lever combined speed and clutch control
- Available for single and multiple screw vessels
- Transfer lock to prevent accidental transfer to remote stations
- Engine warm-up mode
- Vessel slow speed mode
- Trolling valve control with selectable engine RPM settings
- Proportional reversing delay interlocks
- Proportional throttle boost
- Controlled acceleration/deceleration
- Clutch oil pressure throttle interlock
- Neutral start interlock
- Shaft brake control with multiple timing features



## 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 control units allows control of both engines and clutches using only one control lever
- Full diagnostic capability from control head
- Fault output to vessel alarm system
- Engine data link pass through to vessel alarm system

*Simple. Reliable. Cost-effective.*

## Key Features:

- Versatile
- Economical
- Electronic engine link
- Electronic gearbox link
- Electronic trolling valve link
- Actuator links
- Shaft brake link
- Gear shift and throttle sequencing
- Safety interlocks
- Station transfer
- Multi functional display and buzzer at each station
- Redundant control lever position sensing
- Redundant power
- Redundant communication
- Redundant components monitored internally
- Serial communication reduces wiring
- Dual CAN network to improve the reliability of communication
- Simple keypad or computer setup
- Self diagnostics

## Features:

- Backlit, dimmable, 160 x 160 pixel graphical LCD
- Buzzer in each control position
- Shaft RPM indication is available on each control head
- Four membrane buttons with intuitive
- Menu in English and Chinese
- Dedicated station transfer button
- 120° control lever travel
- Dual CAN
- The dimmable, multi-function screen provides display of control and machinery status.
- Screens can be configured to display the most basic system information or more comprehensive data.
- Items on display include: control system displays and alarms, control lever position, transfer status, engine operating parameters available, shaft rpm (optional) and gear engagement.

## Specification

### Power Supply:

Nominal 24Vdc, 18Vdc to 36Vdc  
 Typical 175mA @24Vdc(per section not including connected items)

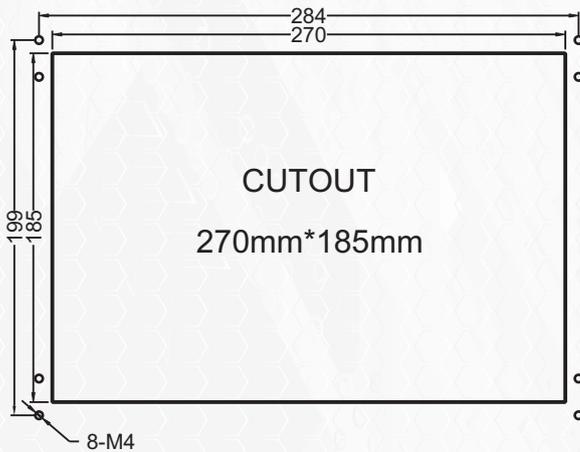
### Environmental:

Operating temperature -25°C to +70°C  
 Storage temperature -40°C to +85°C  
 Protection classification Ip44  
 Meets or exceeds marine classification and regulatory requirements for Electromagnetic Compatibility, Vibration, Temperature, Humidity and Voltage Variation

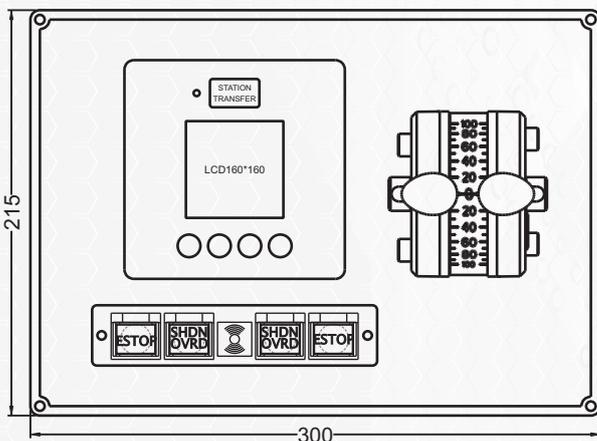
**Overall dimensions:**300mm L x 215mm W x 143mm H

**Cut-out dimensions:**270mm L X 185mm W

## Cutout (Panel)



## Dimension (Panel)



## Simplified Four Station Control System

