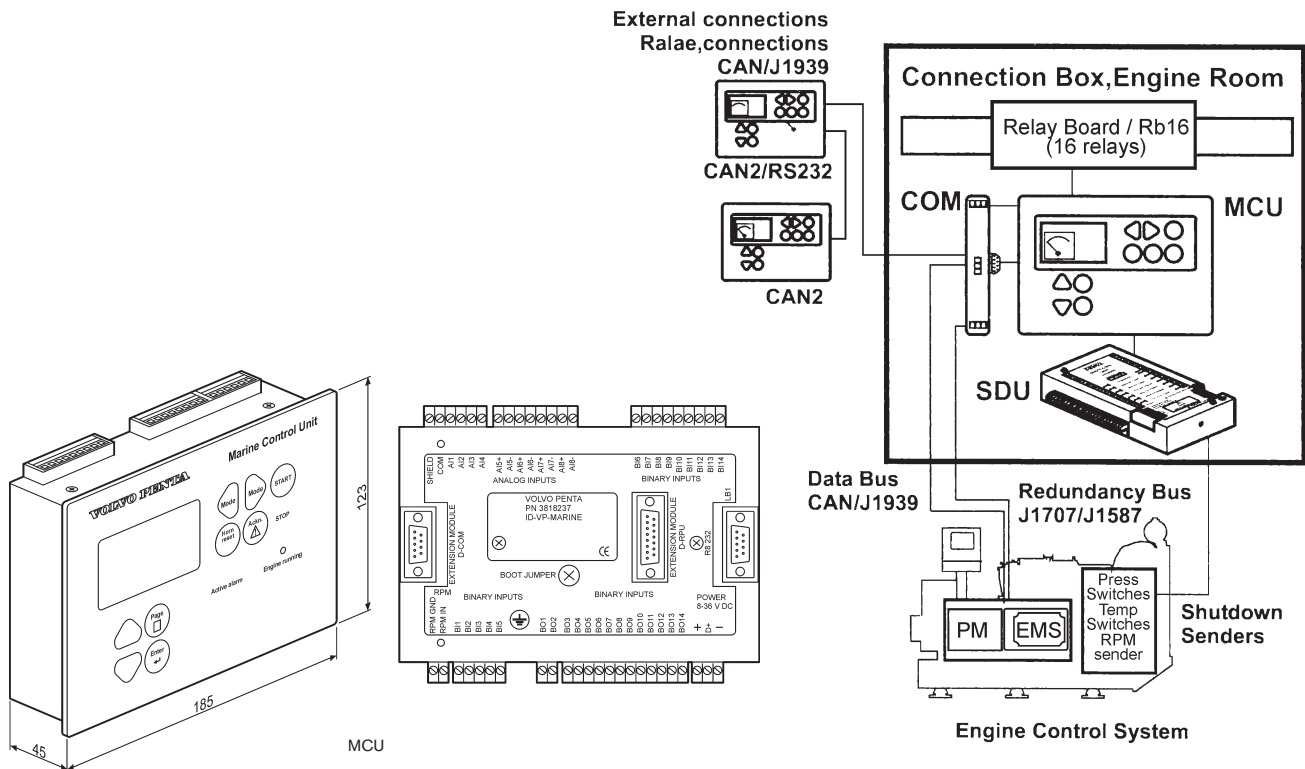


Optional Equipment - Marine Genset Electrical system



MCC - Marine Commercial Control system

MCC Description

Volvo Penta MCC system is a new engine control and monitoring system designed specially to meet the demanding needs of the marine commercial market for both electrical and mechanical engines. The system is easily integrated into the ship's control system.

This engine specific approach enables Volvo Penta MCC system to delivering a wide range of values and diagnostic information in plain text. The unit provides users with a highly flexible solution, featuring configurable inputs and outputs, allowing the controller to be customized to a particular application or requirement without complicated programming.

MCC Features

- Classifiable in all major classification societies ABS, BV, CCS, DNV, GL, KRS, LR, PRS, RMRS, RINA and CRS
- Electrical interface configured to match most common type installations, re-configuration available via PC tool
- Shutdown system with separate senders
- Automatic switchover to backup power supply mode
- Menu navigation guide at the MCU control unit

MCU - Marine Control Unit

- Support for both electrical and mechanical engines
- Support for five languages, English (default), French, German, Italian and Spanish
- Auxiliary, Emergency, Combined (Harbour) and Propulsion engine support
- Engine sequencing and control
- Engine data monitoring and alarm presentation
- Spare configurable inputs/outputs supporting industry standard sensors
- MODBUS communication support for easy integration into the ship's control system
- Easy adjustable setpoints from panel
- History record, easy backtracking and problem solving
- Cost effective symmetrical load sharing (propulsion engines)

MCC electrical interfaces

- Digital speed up/speed down interface towards load sharing systems (default)
- Configurable $\pm 20\text{mA}$, 4-20mA, 0-1V, 0-2400Ohms speed adjustment input interface to load sharing systems
- Potential free 24VDC contacts for Override indication, Common shutdown, Common warning/alarm, Ready to take load, Ready to start and Engine running.
- Configurable spare relay contacts 24VDC, both normally open and normally closed contacts available

- Two spare standard relays available (requires 0V activation)
- COM module, communication interface from the MCU panel to extension modules and/or the Remote Panels.

PC tools available at VPPN

- Production download tool, application for production and service
- DriveConfig, configuring the MCU for extra functionality
- DriveMonitor, converts your PC into a MCU with full functionality (the PC can be used as a remote panel)
- WinScope, data logging of engine data

Extension features

- Remote Panels (max. 2 pcs. via CAN2 data bus)

Extension I/O modules for main CAN data bus, available from Huegli Tech AG, www.huegli-tech.com :

- IS-BIN16 , additional 16 digital inputs or outputs
- IS-AIN8 , additional 8 analogue inputs 4-20mA, PT100/1000, NI100/1000, thermo J/K/L and 0-2400Ohm sensors and more
- IGS-PTM , additional 4 analogue inputs 4-20mA, PT100, NI100 and 0-250Ohm sensors
- All input/outputs configurable via PC tool