

## M2500 SERIES

### Engine Control & Monitoring Unit



### Features & Benefits

FEATURES	BENEFITS
<b>9 digital alarm/shut-down inputs</b>	Monitoring of e.g. oil pressure, coolant temperature and engine speed
<b>8 Analog measurement inputs</b>	Monitoring and indication of analog measurements
<b>Cable monitoring on sensor inputs</b>	Fail safe system
<b>Cable monitoring on solenoid outputs</b>	Fail safe system, no need of separate cable monitoring module
<b>Large graphical display</b>	Easy overview of engine condition and operation
<b>SD card</b>	Storage of copies of log and configuration files, programmable from SD card
<b>Type-approved by marine classification societies</b>	Applicable in marine control and alarm systems
<b>USB mass-storage device</b>	Easy access to log and configuration files. Programming software installed on the module.
<b>RS485 Modbus RTU</b>	Communication with HMI and SCADA systems

### Accessories



#### M2600 Shutdown Unit

Safety shutdown device for protection of marine engines. Speed detection from magnetic pickup or digital input.



#### K2502 SD card

Included with the M2500.



#### K1025 USB A to B cable

### Ordering Information

ORDERING NUMBER	CONTROL POWER
M2500.0010	12-24 Vdc

  

ACCESSORIES	REQUIREMENT
M2600.0010	Optional
K2502	Included
K1025	Optional

### Description

The M2500 is designed for control and monitoring of engines in marine applications such as auxiliary generators, emergency generators and propulsion engines. The unit allows manual (local) and remote (automatic) start of the engine and will monitor all engine parameters.

Engine parameters can be monitored via digital and analog sensor inputs. Cable monitoring is available on all sensor inputs. Twelve programmable output relays are available for configuration of common warnings, alarms or shutdowns. Additionally there are pre-defined outputs for common alarms, shutdowns and status indications. The LED display provides an easy overview on the engine status. The front label next to the LEDs is an exchangeable paper label, thus the text can be in any language. A large graphical display provides indication of measurements, alarms, shutdowns and an event log.

Communication with the engine ECU is possible via SAE CAN J1939. RS485 MODBUS is available for communication with external equipment such as alarm systems or PLCs. Easy and user friendly configuration of the unit by the front panel or remotely by PC/ USB interface. The configuration is pin code protected. The unit includes an SD card slot for downloading or uploading the configuration via an SD card. A copy of the engine log is automatically saved on the SD card. The M2500 unit carries the CE label and has been approved by the major marine classification societies. Together with the optional M2600 Shutdown Unit, M2500 can form a complete engine control, alarm and safety system.

### Specifications

<b>Operating Temp.</b>	-15°C to +70°C
<b>Humidity</b>	95%
<b>Vibration</b>	DNV vibrations class B
<b>EMC</b>	IEC 60945
<b>Enclosure</b>	IP44 (panel front only)
<b>Primary Supply</b>	+24 Vdc (-30 %/+30 %)
<b>Backup Supply</b>	+24 Vdc (-30 %/+30 %)
<b>All Relays</b>	except where otherwise specified
<b>Relay Response Time</b>	20 ms (worst case)
<b>Contact Set(s)</b>	1 normally open
<b>Contact Rating</b>	AC: 1 A, 250 Vac; DC: 1 A, 35 Vac

#### Run/ Stop Solenoid relay

<b>Relay Response Time</b>	20 ms (worst case)
<b>Contact Set(s)</b>	1 normally open
<b>Contact Rating:</b>	AC: 8 A, 250 Vac; DC: 8 A, 35 Vdc

#### System fault output relay (Siren)

<b>Relay response time</b>	20 ms (worst case)
<b>Contact Set(s)</b>	1 change over
<b>Contact Rating:</b>	AC: 1 A, 250 Vac; DC: 1 A, 35 Vdc
<b>Dimensions</b>	<b>H</b> 137 mm (6.2"); <b>W</b> 209 mm (8.2"); <b>D</b> 39 mm (1.5")

# AMEYA360

Components Supply Platform

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