

# STEM Control M1 Control module



**The STEM CONTROL M1 is a flexible control unit which provides a full range of I/O and network interfaces. Fitted with the STEM CONTROL KERNEL software, it becomes a high performance control and monitoring system dedicated to tank management on board ships.**

Based on a powerful realtime hardware and OS, it also provides alarms generation, and configurable control automation.

The STEM CONTROL system is designed to be the heart of your tank management automation. It comes with a unique feature that brings plug and play capability to all the equipment that are connected to it, thus making it trivial to replace any of them, even on the deck.

## Technical data

### Calculator

**CPU:** 32 bits ARM7 **RAM:** 256 MB **FLASH:** 1,5 MB

Redundancy enabled (when using two modules)

**Power Input:** 24 Vdc

**Operating temperature:** 5°C to 70°C

**Terminal wiring size:** 2,5 mm<sup>2</sup>

**Width:** 260 mm **Height:** 130 mm **Depth:** 40 mm

**Consumption, no AI 4-20 mA:** 12 W

**Consumption, 32 AI 4-20 mA:** 30 W

**Inputs/Outputs:** 32 channels AI (4-20mA) - 32 channels DI-DO - 1 relay (for alarm)

### Interfaces:

2 Ethernet 10Mb/s - 1 CAN - 16 RS485 (2 of which are isolated) - 1 RS232 - 1 USB

Self Monitoring

1 buzzer

3 LED for status display

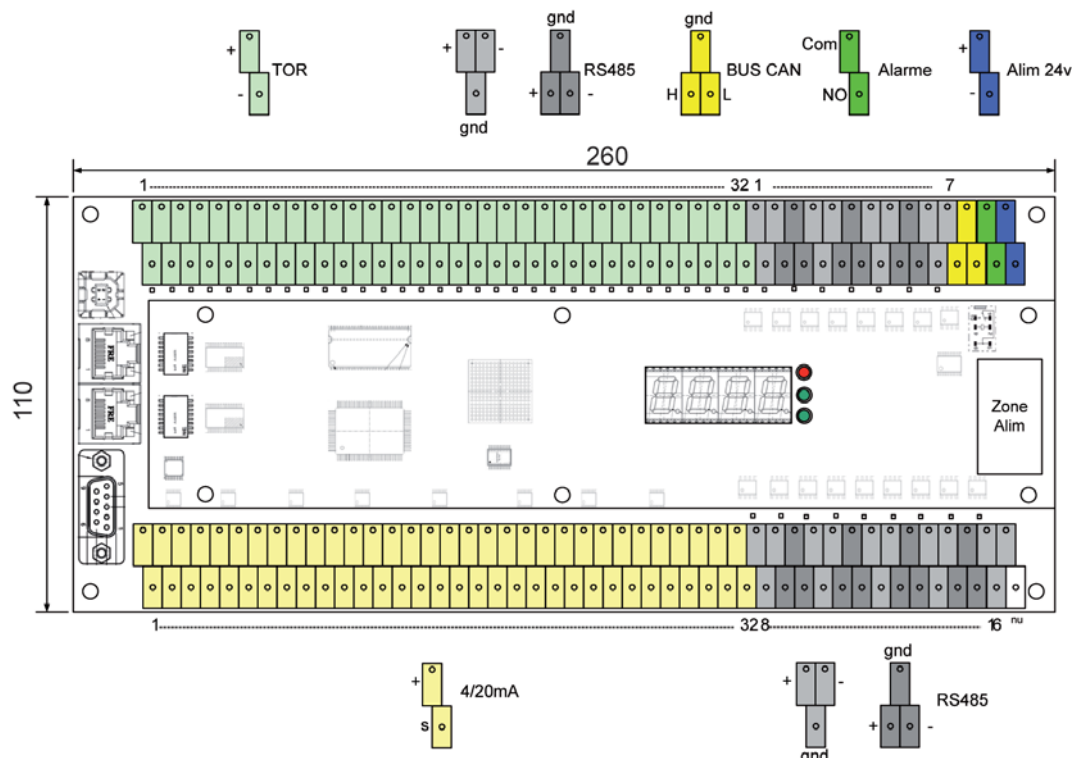
4 Digits for status display

16 LED for RS485 monitoring

16 LED for DI-DO monitoring

Built-in test capability

## Dimensional drawings



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