The SmartBoat® Solution

Crush NMEA 2000® Complexity

One SmartBoat Module can perform the work of many different devices, integrating analog sensors, digital sensors, and a wide range of protocols to create the most capable NMEA 2000 network imaginable.

It's that Simple.

AIRMAR® TECHNOLOGY CORPORATION

The SmartBoat® Solution

Unique. Powerful. Universal. Expandable.

SmartBoat provides a simple and cost-effective way to connect and manage a variety of analog and digital sensors and devices to the NMEA 2000® network – regardless of their protocols. This results in the creation of an intelligent and capable NMEA 2000 network where all data is readily accessible on your MFD.

Monitor Vital Parameters:
- Battery status
- Bilge pumps
- Diesel fuel flow
- Engine J1939/J1708/J1587
- NMEA 0183
- Fuel consumption
- Temperatures
- Tank levels
- Weather conditions
- Voltage
  and much more

Digital Switching & Automation:
- Alerting & automation
- Custom alarms & notifications
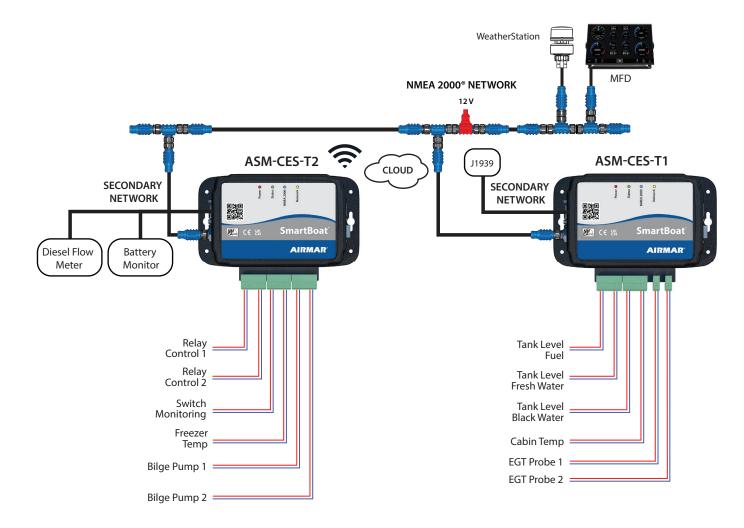- Timers & counters
- Fully programmable actions
- Relay control

Network Bridging & Filtering

Diagnostics:
- BUS traffic and PGNs in human readable format
- Vessel data recorder
- PGN value logging
- Searchable network traffic
- NMEA 2000 traffic replay

NEW - Cloud Services (email and SMS notifications) – Fall 2023

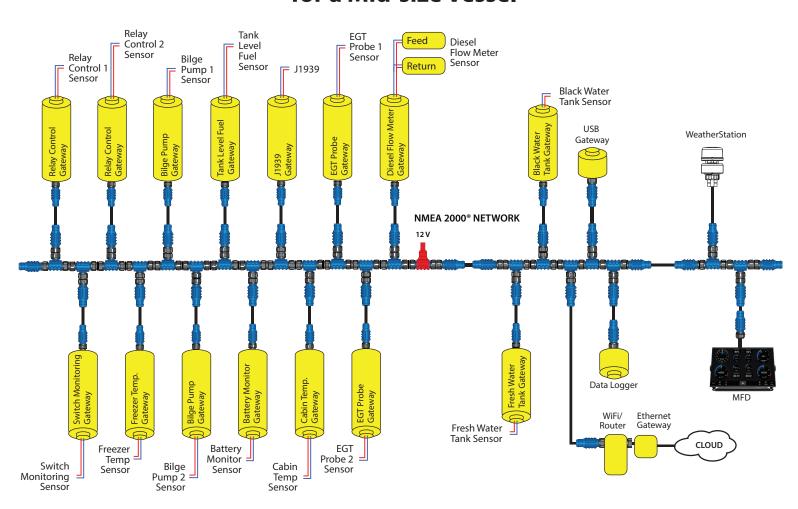## Basic NMEA 2000® Network for a Mid-size Vessel *with SmartBoat*

Save up to 68% on a typical retrofit. Each SmartBoat Module is less than $1,400 (including built-in configuration software and diagnostics). N2K cabling is reduced by 80%.

What Makes SmartBoat Unique?

- The only solution with NMEA 2000, NMEA 0183, J1939, and J1587 support in a single module

- The only solution for fully customizable MFD alerts

- The only solution with built-in configuration software and diagnostics

- The only solution available with Ethernet bridging today, supporting NMEA OneNet in the future

- Advanced logging features including the ability to "replay" saved logs

- Savings of up to 68% for a typical retrofit

- 80% reduction of N2K cabling in a typical retrofit

Competitors' Basic NMEA 2000® Network for a Mid-size Vessel

Each gateway costs up to $400. Additional N2K cabling and a separate configuration software package ($2,000) is required. A separate dedicated display may be necessary for sensor configuration.

It Starts with ONE SmartBoat Module

At the heart of the solution is the **Airmar SmartBoat Module (ASM)**, a universal NMEA 2000 device with browser-based SmartFlex™ software that eliminates the need to buy additional hardware, software, or dedicated displays to program the modules or view the data. **All data is readily accessible on your MFD.**

The initial step involves selecting the appropriate ASM for your specific applications. It's important to identify the sensors you intend to connect and the desired features as each module is tailored to support certain types of sensors. For instance, the T1 module is designed to support resistive sensors, thermistors and current loop which are essential for applications like tank monitoring. The T2 module is suitable for resistive sensors, voltage inputs and switches allowing monitoring of motors, pumps, and electrical circuits. If you require more connectivity options, the CES (CAN, Ethernet, Serial) models provide added support for Ethernet, USB ports, and digital engines like J1939/J1708/J1587 and Airmar's diesel fuel flow sensors.

For additional support in choosing exactly the right module(s) for your application, please contact our team at Gemeco Marine Electronics at 803-693-0777.

A Model for Every Installation!

	ASM-C	ASM-C-T1	ASM-C-T2	ASM-CES	ASM-CES-T1	ASM-CES-T2
Programmable Sensor Inputs		Up to 8 Sensor Inputs per ASM	Up to 4 Sensor Inputs per ASM		Up to 8 Sensor Inputs per ASM	Up to 4 Sensor Inputs per ASM
Thermistor (NTC)		✓	✓		✓	✓
Current Loop — 4 wire interface		✓			✓	
Current Loop — 2 and 3 wire interface		Up to 4 per ASM			Up to 4 per ASM	
Resistive Senders (US, European, or custom)		✓	✓		✓	✓
Binary Switch		✓	✓		✓	✓
Voltage (0-75VDC)			✓			✓
Fixed Sensor Inputs		Up to 2 Sensor Inputs per ASM	Up to 4 Sensor Inputs per ASM		Up to 2 Sensor Inputs per ASM	Up to 4 Sensor Inputs per ASM
Thermocouples (J,T,K,E types)*		✓			✓	
Relays (10A Resistive, 5A Inductive)			✓			✓
Run Detector (9-240VDC/VAC rms)			✓			✓
External Connections						
Primary NMEA 2000	✓	✓	✓	✓	✓	✓
WiFi	✓	✓	✓	✓	✓	✓
USB 2.0				2	2	2
Ethernet (RJ-45)				1	1	1
Secondary Network DB9 Male includes: SmartFlex™ Battery Monitor, Diesel Flow Meter, J1939/J1708/J1587 or NMEA 2000 (secondary) NMEA 0183 (RS-422, RS-485, RS232)				1	1	1
Signal K compatibility	✓	✓	✓	✓	✓	✓
OneNet®				✓	✓	✓

* Dry Exhaust

Patent Pending

www.airmar.com

ISO CERTIFIED · CE · UKCA · NMEA 2000

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TECHNOLOGY CORPORATION