


Product Name	Smart Sensor Modules
Product Image	
Part Number	SSM-100 SSM-200
Dimensions & Weight Product Description	<ul style="list-style-type: none"> • The Smart Sensor Modules are intelligent, multi-channel monitoring units for nearly every measurable parameter on a vessel. Available as SSM 100 (2 temperature channels, 8 digital inputs) and SSM 200 (4 temperature channels, 12 digital inputs, 6 analog inputs, 1 shunt), these modules provide fully software-configurable, galvanically isolated inputs, enabling safe and flexible monitoring of engines, generators, tanks, batteries, and other systems. • Through the Smart Boat app, the modules provide real-time measurement, automated triggers, and remote data integration, while maintaining electrical independence between connected systems—critical for modern, isolated marine installations.
Key Features	Sensor Inputs <ul style="list-style-type: none"> • Temperature Monitoring 2 (SSM 100) or 4 (SSM 200) channels using compatible probes • Analog Inputs (SSM 200) Six channels configurable in software to measure: <ul style="list-style-type: none"> ○ Voltage ○ Resistance ○ Tank senders ○ Current loops ○ Shunts & battery state-of-charge • Digital Inputs <ul style="list-style-type: none"> ○ 8 inputs on SSM 100, 12 inputs on SSM 200 ○ Configurable in software: voltage high/low, ground, or edge-triggered ○ Two special inputs on SSM 200 for RPM monitoring • One-Wire Sensor Ports Support up to 32 daisy-chained devices System Intelligence & Control

	<ul style="list-style-type: none"> Galvanic Isolation Separate input banks remain electrically isolated, protecting engines, generators, and critical systems PWM / Alternator Control RJ45 output integrates with PWM controllers for windscreen wipers, alternator field control, or other applications Software Configurable No jumpers or rewiring needed; all functionality assigned via Smart Boat app
Customer Benefits	<ul style="list-style-type: none"> All-in-One Monitoring Measure temperature, voltage, resistance, current, and RPMs in a single module Electrical Safety & Isolation Fully galvanically isolated inputs prevent cross-system interference and corrosion Cost & Space Efficiency Replaces multiple individual controllers and sensors with a single module Flexible Expansion Modular architecture supports both new and retrofit installations
Use Cases	<ul style="list-style-type: none"> Engine & Generator Monitoring Track RPM, voltage, and temperature while keeping systems isolated Tank & Battery Monitoring Measure fuel, water, or battery levels with accurate analog inputs PWM-Controlled Devices Operate wipers, alternators, or fans via module-controlled outputs Digital Triggering & Automation Configure digital inputs to trigger relays, alerts, or app-based actions
SmartBoat Ecosystem Context	Smart Sensor Modules form the primary measurement and sensing layer of the Smart Boat ecosystem, providing highly flexible, isolated inputs for advanced monitoring and automated control. They integrate seamlessly with Terminal Controllers, Relay Controllers, Solid-State Relays, and the SmartBoat app, forming a modular, unified
Installation & Integration	<p>Designed for competent DIY installers and marine professionals, the system:</p> <ul style="list-style-type: none"> Compatible with standard marine wiring practices Fully software-configurable via Smart Boat app Supports both retrofit and new installations <p>Designed for surface or Din Rail mounting</p>