

## Vessel Analog Gateway

This innovative compact unit directly connects up to 8 analog senders to marine networks including NMEA 0183, NMEA 2000, or Wireless Mesh (Zigbee style). Designed to add digital display support for single or dual engine configurations, the SeaSmart Analog Gateway converts sensor data into compatible network protocol for display on modern Chart plotters, PC/iPad devices, or any internet Web browser device.

A 12-pin flying lead sensor harness attaches to each vessel sensor and water-resist lock connector insures reliable performance in harsh environments. Each of the 6 analog inputs can be configured for resistive or voltage sensor inputs to cover any instrumentation requirement. Two of the inputs are pulse style for use with most tachometer and fuel flow sensors including inductive, Hall-Effect, generator, and alternator.

The versatile Analog interface design allows the unit to be user configurable to support any analog sender via its exclusive embedded calibration tables. Unique only to SeaSmart.net is proprietary calibrations preprogrammed in non-volatile memory.

This allows the installer to select from a growing list of preconfigured vessel engine packages and upload to unit using supplied Windows OS USB port. As a result, the SeaSmart Analog Gateway will provide basic instrumentation for dual engines (Tachometer, Engine Temp, Oil Pressure, and Alternator Voltage) or more extensive Single Engine package (Fuel Flow, Fuel level, Transmission Pressure, Battery Bank status, and more.) Sensor inputs can come from any resistive sender, voltage sender or even operate in parallel with most existing analog gauges thereby allowing for a simple upgrade path on older analog engines to the new digital marine networks.

Based on the SeaSmart.net line of marine adapters, the SeaSmart Analog Gateway can be purchased with options to support popular network interfaces including NMEA 0183, NMEA 2000, Ethernet\*, or Wi-Fi\*. NMEA 0183 provides both serial RS232 and USB output to compatible equipment or PC platforms. The NMEA 2000 option allows for direct instrument display on compatible Marine Chart plotters and automatically populates preconfigured gauges with data from older analog engine packages. The mesh wireless options provide interface to on-board PC or iPad devices running a growing list of SeaSmart.net compatible applications including the popular iNavX and vDash. The wireless options also allow remote access to vessel data over the internet using a SeaSmart gateway, thus enabling a single low-cost solution for remote monitoring anywhere in the world.





Model Number	SSAGW-01	SSAGW-02	SSAGW-03
Interface	NMEA 0183	NMEA 2000	Wireless
Analog Inputs <ul style="list-style-type: none"> <li>User configurable</li> <li>Resistive 50/300 ohm Pull-up</li> <li>Voltage 5V/10V/34V/32V</li> </ul>	6	6	6
Pulse Inputs <ul style="list-style-type: none"> <li>Fuel Flow Sensor (supply/return)</li> <li>Tachometer Inductive/Hall Effect/Generator</li> </ul>	2	2	2
Sensor Lookup Resolution	256	256	256
Conversion Rate (all channels)	1 sec	1 sec	1 sec
Serial Port (RS232)/USB Port <ul style="list-style-type: none"> <li>Supplied weather-resist USB - 2m</li> <li>Twist-Lock connector</li> <li>Supplied PC Instrumentation S/W for live view</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aux Serial Port (RS232)	<input checked="" type="checkbox"/>		
NMEA 2000 Port <ul style="list-style-type: none"> <li>Supplied DeviceNet 5-pin Mico C</li> <li>Supported PGNs - 127488,127489,127493,127508,130312</li> <li>130316,127245,127497,127505,127501,120314,126992</li> </ul>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
WiFi Mesh Network (802.15.4) <ul style="list-style-type: none"> <li>Frequency Band ISM 2.4 GHZ</li> <li>Range - 4000 feet</li> <li>Optional remote Antenna</li> </ul>			<input checked="" type="checkbox"/>
Embedded Web Server * <ul style="list-style-type: none"> <li>Included Web Pages for live view</li> </ul>	Gateway*	Gateway*	Gateway*
Remote Access via Internet *	Gateway*	Gateway*	Gateway*
Power Supply	9V-32V DC	9V-32V DC	9V-32V DC
Supply Current	600 mA	600 mA	800 mA
Enclosure Material	Plastic	Plastic	Plastic
Dimensions	6"x5"x2"	6"x5"x2"	6"x5"x2"

\* Requires separate SeaSmart Mesh Network Gateway