

# SeaGauge Analog Sensor Gateway

The SeaGauge G2™ Gateways translate analog sensor data to NMEA 2000, CAN Bus J1939, Ethernet, or WiFi for use on any compatible network. Can be used stand-alone (AdHoc) with any tablet/iPad/iPhone/ SmartPhone or attached to a local router (infrastructure). Also compatible with new MiFi cell based devices and personal HotSpots for remote internet access within coverage areas.

Optional built-in Server hosts Web pages that convert analog sensor data directly into virtual instruments for real-time display of hundreds of parameters. The SeaGauge G2 web pages are completely customizable using the browser interface to match any installation from engine data, fluid tanks, battery status, weather, navigation, and more.

New Generation-2 features allow the gateway to send data directly to HelmSmart™ servers over an existing internet connection while also storing to internal SD memory in case live connections are not available. SD memory files can be later accessed via any browser device and uploaded to cloud based servers for storage and analysis.

The rugged water-resist design features four 12-wire flying lead cable harnesses for secure connections and easy installation. One harness connects up to 12 analog sensors or voltage inputs while a second provides 12 separate indicator/status inputs for extra monitoring. A third harness adds three pulse inputs for tachometer, rotation speed, and event counting. All sensor inputs are user configurable using programmable calibrations for 100's of types of measurements including temperatures, pressures, voltages, currents, and more. New calibrations can be quickly added using the built-in USB port or optional SD memory card.

The SeaGauge G2™ gateway can be used stand-alone to log sensor data to SD Memory or remotely accessed via the WiFi interface using TCP and UDP protocols supporting many devices over a single access point. When paired to a router with internet access or MiFi device, remote access to sensor data is possible anywhere using the HelmSmart Cloud Service.

All SeaGauge G2™ gateways are compatible with NMEA 2000 and CAN J1939 displays to convert older style analog gauges for use with modern Multi-Functional Helm Displays (MFDs).



Model Number	SGENETG2	SGWiFiG2	SGCANG2
Interface	Ethernet	WiFi – 2.4G	NMEA 2000/J1939
Analog Inputs <ul style="list-style-type: none"> <li>0-24VDC (current/EGT/Boost)</li> <li>Resistive Sensor (Temperature/Pressure/Level)</li> <li>Alarm (Switch to ground)</li> </ul>	12	12	12
Pulse Inputs <ul style="list-style-type: none"> <li>AC +/- 12VDC</li> <li>Hall effect (0-5VDC)</li> </ul>	3	3	3
Aux Status/Indicator Inputs <ul style="list-style-type: none"> <li>Contact/Switch closure</li> <li>Voltage Sense (12/24)</li> </ul>	12	12	12
SD Memory Storage (removable)	8GB	8GB	-
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"/>
CAN BUS Port <ul style="list-style-type: none"> <li>NMEA 2000 5-pin micro-C</li> <li>J1939 protocol</li> </ul>	optional	optional	<input checked="" type="checkbox"/>
Ethernet Port (10/100 Base-T) <ul style="list-style-type: none"> <li>Supplied weather-resist RJ45 patch cable-3m</li> <li>5-pin micro Twist-lock connector</li> </ul>	<input checked="" type="checkbox"/>		optional
WiFi Port (802.11 b/g) 2.48 GHz <ul style="list-style-type: none"> <li>Supplied 6" di-pole or Optional remote Antenna</li> <li>Range of 300'</li> </ul>		<input checked="" type="checkbox"/>	optional
Cellular 4G/LTE direct internet interface <ul style="list-style-type: none"> <li>External Adapter – RS232 or CAN Bus</li> <li>Data plans for Verizon and AT&amp;T</li> </ul>	optional	optional	optional
Embedded Web Server <ul style="list-style-type: none"> <li>Included Web Pages for live view</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	optional
Remote Access via Internet <ul style="list-style-type: none"> <li>Direct Push to HelmSmart.net</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	optional
Power Supply	9V-32V DC	9V-32V DC	9V-32V DC
Supply Current	800 mA	800 mA	850 mA
Enclosure Material	Plastic	Plastic	Plastic
Dimensions	7.8"x6.3"x2"	7.8"x6.3"x2"	7.8"x6.3"x2"