SeaGauge G4 Analog Sensor Gateway

The SeaGauge G4™ Gateways translate analog sensor data to NMEA 2000, CAN Bus J1939, and 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.

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 G4 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-3 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 dual 20-wire flying lead cable harnesses for secure connections and easy installation. Molex MX150 harness connects up to 12 analog sensors or voltage inputs along with 4 separate indicator/status inputs for extra monitoring. A second harness adds three pulse inputs for tachometer, rotation speed, and fuel flow sensors. 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 Web server pages or optional SD memory card.

The SeaGauge G4™ 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 G4™ 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	SGWiFiG4
Interface	WiFi and CAN BUS
Analog Inputs • 0-24VDC (current/EGT/Boost) • Resistive Sensor (Temperature/Pressure/Level) • Alarm (Switch to ground)	12
Pulse Inputs • AC +/- 12VDC • Hall effect (0-5VDC)	3
Aux Status/Indicator Inputs • Contact/Switch closure Voltage Sense (12/24) • Active ground relay drive (12VDC)	4 4
SD Memory Storage (removable)	32GB
USB Port • Supplied weather-resist USB - 2m • Twist-Lock connector • Supplied PC Instrumentation S/W for live view	☑
CAN BUS Port • NMEA 2000 5-pin micro-C • J1939 protocol	☑
WiFi Port (802.11 b/g) 2.48 GHz • Supplied 6" di-pole or Optional remote Antenna • Range of 300'	
WiFi Port modes • Ad Hoc (station) for stand alone use without local router • Infrastructure for use with router base networks and internet connection	☑
Battery – backed real time clock • Remote data logging time stamp • Auto sync to NMEA 2000 GPS	☑
Embedded Web Server • Included graphic Web Pages for live instrument view • Web based configuration and live status	☑
Remote Access via Internet • Direct Push of all analog and CAN bus data to www.helmsmart-cloud.com	☑
Power Supply	9V-32V DC
Supply Current	800 mA
Enclosure Material	Plastic
Dimensions	6"x 5"x 2"