netGauge Analog Sensor to WiFi Gateway

The netGauges.net™ Gateways translate analog sensor data to Ethernet or 802.11 b/g wireless for use on any compatible infrastructure or AdHoc network. Can be used stand-alone (AdHoc) with any tablet/iPad/iPhone/SmartPhone or attached wirelessly to an local router (infrastructure). Also compatible with new MiFi cell based devices and personal HotSpots for remote internet access within coverage areas.

A Built-in Server hosts Web pages that convert analog sensor data directly into virtual instruments for real-time display of hundreds of parameters. The netGauges.net 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 adapter to send data directly to netGauges.net™ 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 SD memory card.

The netGauges.net™ WiFi adapter 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 netGauges.net Cloud Service.

All netGauges.net™ adapters can push data directly to internet servers using established local network access, providing 24/7 monitoring and alerting services using advanced pre-provisioned Cloud technologies.

Model Number	NGENETG2	NGWiFiG2	NGWiFiPro
Interface	Ethernet	WiFi – 2.4G	WiFi – 5G
Analog Inputs • 0-24VDC (current/EGT/Boost) • Resistive Sensor (Temperature/Pressure/Level) • Alarm (Switch to ground)	12	12	12
Pulse Inputs • AC +/- 12VDC • Hall effect (0-5VDC)	-	-	3
Aux Status/Indicator Inputs • Contact/Switch closure • Voltage Sense (12/24)	-	-	12
SD Memory Storage (removable)	4GB	4GB	4GB
Serial Port (RS232)/USB Port • Supplied weather-resist USB - 2m • Twist-Lock connector • Supplied PC Instrumentation S/W for live view	☑	☑	☑
Aux Status/Indicator Inputs • Contact/Switch closure • Voltage Sense (12/24)	12	-	12
Ethernet Port (10/100 Base-T) • Supplied weather-resist RJ45 patch cable-3m • 5-pin micro Twist-lock connector	☑		-
WiFi Port (802.11 b/g) 2.48 GHz • Supplied 6" di-pole or Optional remote Antenna • Range of 300'		☑	
WiFi Port (802.11 b/g) 5 GHz • External Amplified via Ethernet (POE) • Range of 5000'			☑
Embedded Web Server • Included Web Pages for live view	☑	☑	☑
Remote Access via Internet • Direct Push to HelmSmart.net	☑	☑	☑
Power Supply Supply Current	9V-32V DC 800 mA	9V-32V DC 800 mA	9V-32V DC 850 mA
Enclosure Material Dimensions	Plastic 4"x2"x2"	Plastic 4"x2"x2"	Clear Ultem 4.7"x5.3"x1.5"