Issue v2.1

Actisense®
Connect without limits



W2K-2

NMEA 2000 to WiFi Gateway

The W2K-2 is a compact and low-power NMEA 2000 to Wi-Fi Gateway with voyage data logging capability.

Transfer data from an NMEA 2000 backbone to any device (e.g. laptop, tablet or smartphone) connected to the W2K-2 via Wi-Fi.

It has built-in conversion of NMEA 2000 messages into NMEA 0183 sentences thus allowing a wide variety of vessel data (e.g. position, speed, course, wind speed, depth, engine data, AIS messages etc.) to be shared with NMEA 0183 compatible software applications running on connected devices.

All the data received (or a selected subset) can be logged to an internal micro SD card* for post trip analysis.

This is very useful for analysing race data, generating logbooks, diagnosing problems or even sharing your voyage details.

*The W2K-2 does not have an SD Card included.

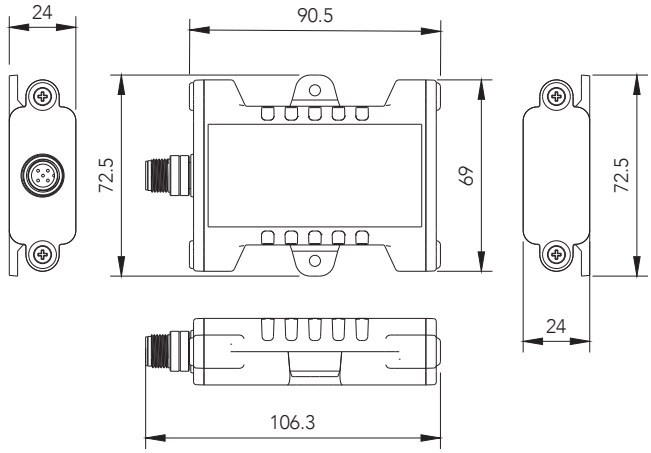
The W2K-2 has the legendary Actisense "Reliability Built In" along with useful diagnostic LEDs, internal antenna, enhanced password security, full certification and all packaged in an extremely rugged IP67 case.

Features:

- NMEA 2000 to Wi-Fi Gateway and voyage data logging in one device
- Converts NMEA 2000 to / from NMEA 0183 (streamed over Wi-Fi)
- Supports both TCP and UDP and streams data using up to three separate data servers
- Compatible with a huge range of navigation software and Apps
- Remote firmware upgradability
- Diagnostic LEDs for NMEA 2000 bus activity and Wi-Fi status
- IP67 rated ruggedized case
- Works as an access point and connects to existing Wi-Fi networks in client mode
- 2.4GHz radio with integrated internal antenna (up to 150Mbps)
- Automatically measures and reports the NMEA 2000 bus voltage
- Embedded user manual – accessible via browser
- Unique default SSID and password for enhanced security

All features and specifications are preliminary and may change without notice

Dimensions



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WGX-1 Specifications

Power Supply	
Supply Voltage (NMEA 2000 Port)	9 to 30V DC
Supply Current (NMEA 2000 Port)	70-80mA @ 9V DC, Max 220mA
Load Equivalent Number (LEN)	2
NMEA 2000 Port	
Speed / Baud Rate	250kbps
Connectivity	M12 Male (A coded)
Wi-Fi Radio	
Compatibility	IEEE 802.11 b/g/n
Speed	802.11n up to 150Mbps
Frequency Band	Wi-Fi: 2412 -2484MHz
Max Output power	Wi-Fi: 19.14dBm (802.11b) 19.22dBm (802.11g) 19.12dBm (802.11n)
Antenna	Integrated internal antenna, 3.4dBi
Range (Open space)	approx. 30 meters
Security	WPA_PSK, WPA2_PSK, WPA_WPA2_PSK
Configuration	
IP support	Supports TCP & UDP broadcast
Data protocols	NMEA 0183 & Five proprietary
Security	Unique SSID and unique default Password per device. (Password is user configurable)
Mechanical	
Housing Material Body	Flame retardant Polycarbonate
Housing Material End Caps	Flame retardant PBT
Weight	112g
Dimensions	126mm x 73mm x 24mm
Approvals and Certifications	
NMEA 2000	NMEA 2000 Certified
NMEA 0183	IEC 61162-1 & 61162-2 compliant
RoHS and REACH	Compliant
Module Certification	KCC / BQB / IC / Wi-Fi / NCC / MIC / FCC DSS / FCC DTS / SRRC / CE
EMC	EN 60945:2002 Edition 4 (section 9.3) EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN 300 328 V2.2.2 Radiated Spurious Emissions FCC Part 15b ICES-003 Iss 7
Environmental Protection	IP67
Operating Temperature	-25°C to +70°C
Storage Temperature	-30°C to +70°C
Recommended Humidity	0 to 93% RH @ 40°C
Guarantee	5 years

All specifications are taken with reference to an ambient temperature of 25°C unless otherwise specified.
All specifications correct at time of print