Actisense®

NGX-1

The Actisense NGX-1-ISO & NGX-1-USB

Operating in two individual modes, the NGX-1 can act like a traditional NMEA 2000 gateway allowing streaming of NMEA 2000 PGN's to popular boating apps, or in a seperate mode be configured as an NMEA 0183 to NMEA 2000 converter allowing older NMEA 0183 networks to integrate with modern NMEA 2000 networks

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NGX-1

NMEA 2000 Dual Gateway

Features	Advantage	Benefits
Dual Functionality	Acts as an NMEA 2000 to PC Interface, or as a bi-directional NMEA 0183 to NMEA 2000 Converter. Replaces the both the legacy Actisense NGW-1 and NGT-1 in a single device.	Saves cost as single device can perform multiple functions.
NMEA 2000 to PC Interface	Send and receive data safely between a PC application and an NMEA 2000 network.	Compatible with all major chart-plotter applications on Windows, Mac and Linux.
Bi-directional NMEA 0183 to NMEA 2000 Converter	Allows sharing of information between devices operating on the different standards. Multiple NMEA 0183 devices can be multiplexed on a NMEA 2000 bus.	Saves cost as devices operating on different network standards can share data, preventing expensive upgrading of electronic equipment.
Powerful conversion engine	Reliable, renowned conversion engine converts data bi-directionally from NMEA 0183 to NMEA 2000, supporting AIS and Fast Heading.	Wide compatibility and field proven reliability.
Advanced configuration options	Transmit and receive lists, as well as transmit rates for both PGN's and sentences can be independantly configured.	Allows optimisation of network, preventing data loops and ensuring reliability.
NMEA 2000 diagnostic tool	Utilising the free NMEA reader / EBL reader software it allows visibility of the data each device is sharing providing valuable diagnostics.	Provides a powerful, economic fault finding solution for NMEA 2000 networks.
NMEA 2000 Firewall	Enforces fundamental NMEA 2000 message rules ensuring network integrity is maintained.	Simplifies integration of third party applications to the NMEA 2000 network.
Unified Actisense interface	Can be used to configure and update other Actisense NMEA 2000 devices.	Reduces system cost and simplifies configuration and update operations.
USB or ISO (RS422) interface options	The USB version provides simple compatibility with PC systems whilst the ISO version provides compatibility with embedded systems and does not require specific drivers.	Provides compatibility with different Installation requirements.
Full galvanic isolation	PC or device remains fully isolated from the NMEA 2000 network protecting against ground loops and data corruption.	Renowned Actisense isolation technology protects connected equipment providing peace of mind and reliability.
High data transfer rates	Supports up to 230,400 bps data rate on ISO / PC port.	Ensures all data can be transferred reliably from / to the NMEA 2000 network.
Ruggedised IP67 waterproof housing	Suitable for installation in wet and harsh environments.	Easy and quicker installation. Increased reliability providing peace of mind.
Firmware upgradable	Gateway can be upgraded allowing support for future features and standard updates.	Provides a future proof solution for peace of mind purchase and operation.
Low Power	Efficient design draws minimal current powered directly from NMEA 2000 bus.	Increased networks battery life.
Network Voltage monitoring	Continiously measures NMEA 2000 network voltage.	Allows diagnosis of NMEA 2000 network power issues.
Diagnostic LED's	Diagnostic LED's indicate data transmit and receive showing device and network status.	Quick and easy visual diagnostics saves time debugging.