Actisense Award Winning NMEA Specialists

Part Number: NGW-1-ISO NGW-1-USB NGW-1-ISO-AIS

Actisense

NGW-1 NMEA 2000[®] to PC Interface

Hook up to NMEA 2000[®] whilst keeping currently installed NMEA 0183 devices.

The Actisense NGW-1 is an intelligent Gateway that converts NMEA 0183 data to NMEA 2000® (and vice versa), allowing you to share information between devices from the two standards. This creates the possibility of upgrading some of the vessel's electronics to NMEA 2000® and keeping the remaining NMEA 0183 devices. This can help spread the cost of transitioning to NMEA 2000®, reducing the initial upgrade cost to accommodate a new NMEA 2000® device.

The ISO variant connects easily to NMEA 0183 devices with a dedicated pair of data wires for transmit and receive, allowing the NGW-1 to share data bi-directionally if required. As with all the latest Actisense products, OPTO-Isolation is included on the input and ground breaking ISO-Drive[™] technology on the output to keep your devices safe from hazardous ground loops. A USB option is available for installations operating with PC software that requires NMEA 0183 data.

Taking its power supply directly from the NMEA 2000[®] network (ISO variants) or from a PC (USB variants) removes the need for a separate power supply, reducing installation time and complexity.

The NGW-1 can be configured for operation with AIS devices in the field, or preconfigured in the factory. Any Gateway variant can be purchased with an adaptor cable for connecting directly to Raymarine's SeaTalkNG network (part number: STNG-A06045)



- Upgrade your NMEA 0183 equipment to NMEA 2000[®]
- Allow NMEA 0183 devices to receive vital data from the NMEA 2000[®] bus
- Use the NMEA 2000[®] bus to multiplex several NMEA 0183 signals together
- Configure using NMEA Reader

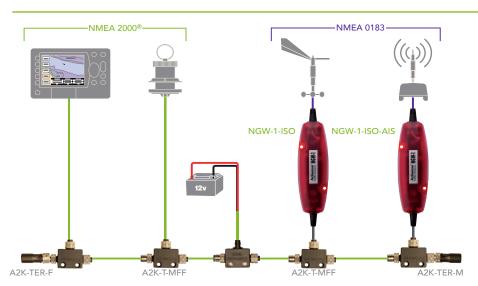
Features:

- One OPTO-isolated input
- One ISO-Drive[™] output
- Up to 115,200 baud

Integrate seamlessly with Raymarine[®] products

The STNG-A06045 adaptor cable enables users to integrate Raymarine SeaTalk^{NG} products into the standard configured NMEA 2000[®] bus and vice-versa. Currently only available when purchased with an Actisense NMEA 2000[®] Gateway product.





A pre-configured version is available for AIS conversions (NGW-1-ISO-AIS).

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NGW-1: Specifications



| Power Supply (ISO & ISO-Al | S Varianta) |
|---|---|
| Supply Voltage | |
| (NMEA 2000 [®] Port) | 9.5 to 35V DC |
| Supply Current | 35mA @ 12V DC |
| (NMEA 2000 [®] Port) | Max 50mA |
| LEN | 1 |
| Power Supply (USB Variants | 1. |
| Supply Voltage | 9 to 29V DC |
| (NMEA 2000 [®] Port) | |
| Supply Current (USB Host | |
| Port) | 85mA @ 5V DC |
| Supply Current | 15mA @ 12V DC |
| (NMEA 2000 [®] Port) | Max 50mA |
| LEN | 1 |
| Mechanical | |
| Housing Material Lid | Polycarbonate |
| Housing Material Base | Flame retardent ABS |
| Weight NGW-1-ISO & ISO- | 220g |
| AIS | |
| Weight NGW-1-USB | 210g |
| Approvals and Certifications | 3 |
| Fully NMEA 2000 [®] Certified | |
| Meets all IEC 61162-1 & 6116 | 2-2 requirements |
| Meets all IEC 61162-3 requirements | |
| EMC | IEC 60945 (Sections 9,10 &11.2) |
| Environmental Protection | IP54 |
| Operating Temperature | -20°C to +55°C |
| Storage Temperature | -30°C to +70°C |
| Recommended Humidity | 0 - 93% RH |
| Guarantee | 3 years |
| NMEA 2000® Port (All | Variants) |
| Compatibility | Fully NMEA 2000 [®] certified |
| Galvanic Isolation | Refer to 'NMEA 0183 port' or 'USB |
| | |
| Galvanic Isolation | Inort' |
| | port' |
| Galvanic Isolation Speed / Baud Rate | 250kbps |
| Speed / Baud Rate | 250kbps M12 Male (A polarised) connector |
| Speed / Baud Rate Connectivity | 250kbps |
| Speed / Baud Rate | 250kbps M12 Male (A polarised) connector |

| NMEA 0183 Port (ISO | , ISO-AIS Variants) |
|-----------------------|---|
| Compatibility | Full NMEA 0183, RS232 & RS422 |
| | compatible. RS485 Listener |
| | compatible |
| Galvanic Isolation | 2500V input to ground |
| | 1500V output to ground using ISO- |
| | Drive™ |
| Speed/Baud Rate | 4800 to 115200 Baud |
| Output Voltage Drive | $>= 2.1V$ (differential) into 100Ω |
| Output Current Drive | 20mA max. |
| Output Protection | Short circuit and ESD |
| Input Voltage | -15V to +15V continuous -35V to |
| Tolerance | +35V short term (< 1 second) |
| Input Protection | Current limited and overdrive |
| | protection to 40V DC |
| Connectivity | 5mm stripped and tinned wire |
| Cable Length | 1.5m |
| USB Port (USB Variant |) |
| Compatibility | USB 1.1, 2.0 and 3.0 |
| Galvanic Isolation | 2500V input to ground |
| Speed / Baud Rate | 4800 to 230400 Baud |
| Connectivity | Male type A plug moulded onto |
| | cable |
| Cable Length | 1.5m |
| Drivers (Latest OS) | Windows XP, Vista, 7, 8 & MAC OS X |
| | supplied on CD & |
| | www.actisense.com/NGW-1/ |
| | Downloads |
| Drivers (Legacy OS) | Contact Actisense for full details of |
| | the legacy OS versions supported: |
| | support@actisense.com |
| | |

Product Dimensions.

