

## 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 bidirectionally if required. As with all the latest Actisense products, OPTO-Isolation number: STNG-A06045) is included on the input and ground

breaking ISO-DriveTM 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

### **Benefits**

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

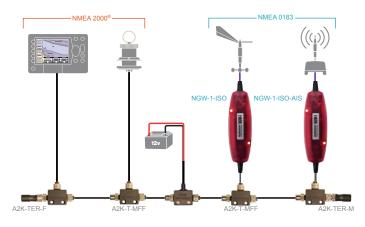
#### Features:

One OPTO-isolated input One ISO-Drive<sup>™</sup> output Up to 115,200 baud

## Integrate seamlessly with Raymarine® products

The STNG-A06045 adaptor cable enables users to integrate Raymarine SeaTalk<sup>NG</sup> 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-A	IIS Variants)	
Supply Voltage	9.5 to 35V DC	
(NMEA 2000® Port)		
Supply Current	35mA @ 12V DC	
(NMEA 2000® Port)	Max 50mA	
LEN	1	
Power Supply (USB Variants)		
Supply Voltage	9 to 29V DC	
(NMEA 2000® Port)	9 to 29 v DC	
Supply Current (USB Host	85mA @ 5V DC	
Port)		
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-		
AIS	220g	
Weight NGW-1-USB	210g	
Approvals and Certifications		
NMEA 2000® Certified		
Meets all IEC 61162-1 & 61162-2 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 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 Tolerance	-15V to +15V continuous -35V to +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
	Supportwactiserise.com

NMEA 2000® Port (All Variants)		
Compatibility	Fully NMEA 2000® certified	
Galvanic Isolation	Refer to 'NMEA 0183 port' or 'USB port'	
Speed / Baud Rate	250kbps	
Connectivity	M12 Male (A polarised) connector moulded on	
	cable	
Cable Length NMEA 2000	1.5m	

## **Product Dimensions**

