NMEA 2000®
Product Range

Actisense aim to solve the critical monitoring and control challenges in transportation.

Our range of products are developed to industry standards and to a high level of quality and technical sophistication.

With our excellent Customer and Technical Support, we offer the products and service you would expect from an industry leading brand.

We take great pride in our intelligent design and exacting manufacturing standards, ensuring the products we develop are the products you want and need.

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NMEA 2000®
Product Range

The simplicity of installing and configuring an NMEA 2000 network can reduce costs, with power and data shared on a single cable.

Actisense®

We have been working with the NMEA to develop the NMEA 2000 standard since before it was officially released. This makes us a go-to authority on NMEA 2000 and our products are at the heart of the standard and its continued development.

Our NMEA 2000 products are NMEA certified so you can relax knowing you have Actisense onboard.

We have developed a range of products to make the transition from NMEA 0183 to NMEA 2000 as smooth as possible.

Our Research and Development team have created a range of interfaces to connect directly to an NMEA 2000 network.

Our in-house Research and Development Team have created a range of innovative, intelligent products that meet and exceed the NMEA standards.

With a highly skilled and qualified Technical Support Team on hand to ensure the best possible all-round service during and after the purchase of your Actisense product.

Our collaboration with the NMEA and other leading manufacturers means we are well placed to lead the industry with our advanced product designs.

Phil Whitehurst
CEO

NMEA 2000®:
Product Range

NGW-1
NMEA Conversion Gateway

The NGW-1 provides an easy way to link between NMEA 0183 and NMEA 2000 networks.

Use additional NGW-1 units to multiplex numerous NMEA 0183 devices onto the NMEA 2000 network. Share the data from many NMEA 0183 devices.
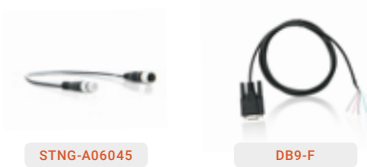
NGT-1
NMEA 2000 to PC interface

The NGT-1 is an intelligent NMEA 2000 gateway able to precisely transfer messages to and from the NMEA 2000 bus.

The diagnostic NMEA Reader software allows viewing of NMEA 2000 messages with configuration options. This enables the set-up of Actisense and many other manufacturers products.

Works well with:
STNG-A06045 | DB9-F

STNG-A06045

DB9-F

Works well with:
STNG-A06045

STNG-A06045

NGW-1-STNG
Integrate seamlessly with Raymarine® products

The NGW-1-STNG enables users to convert NMEA 0183 data into SeaTalkNG and vice-versa by combining a standard NGW-1-ISO with a Raymarine SeaTalkNG adapter cable to interface legacy instruments to the NMEA 2000 based SeaTalkNG bus.

EMU-1
Engine Monitoring Unit

The EMU-1 enables the sharing of engine data throughout the NMEA 2000 bus.

It digitises analogue engine sensors, enabling all NMEA 2000 display devices to monitor the connected engine(s) on a vessel.

Each EMU-1 can be configured to suit the engine it is working with, offering a flexible solution for multiple engine makes and models. Capable of reading a wide range of engine parameters, the EMU-1 will report how the engine is operating and share the information across the network.

Works well with:
STNG-A06045 | DIN-KIT-1 | NGT-1 | A2K-SCREWCAP-10

STNG-A06045

DIN-KIT-1

NGT-1

A2K-SCREWCAP-10

QNB-1
Quick Network Block

The QNB-1 and QNB-1-PMW provide alternatives to multiple connectors, reducing the cost of an NMEA 2000 cable installation.

Perfectly suited to areas of high instrument density, as six drops can be connected.

The LEDs provide information for the installer during set up and to indicate the presence of data, power status, power reversal and to show whether the fuses are intact.

The QNB-1-PMW version is fitted with six standard NMEA 2000 M12 (micro) female connectors allowing 'plug and play' connections for quick and easy installation.

Works well with:
A2K-COVERS | A2K-SCREWCAP-10

A2K-SCREWCAP-10

A2K Range:
NMEA 2000® Networking

A2K-KIT-1
Starter Kit

All the cabling and connectors you need to get your NMEA 2000 network up and running.

A2K-RSK-1
RIB Starter Kit

Installing small NMEA 2000 networks is quick and easy with the RIB starter kit.

A2K-SBN-1
Small Boat Network

An instant NMEA 2000 network for four devices with built-in termination resistors, connect the power and you are ready to go.

A2K-MPT-1
Power T-Piece

Power for your NMEA 2000 bus with plug-and-play connectivity.

All A2K Range products have Micro Connectors and Lite cable, UL Certified

A2K-T-MFF
T-Piece

The heart of an NMEA 2000 back-bone for where a single drop is required.

A2K-4WT
4-way T-piece

Expand your backbone simply, integrate the A2K-4WT to add multiple drops.

A2K-TDC
Backbone & Drop Cable

Available in lengths between 0.25m and 10m, the cable assemblies can be used expand the network.

A2K-BULK-100м
Bulk Cable Reel

Available in 100m reels and ideal for use with the Quick Network Block or Field Fit Connectors.

A2K-FFC
Field Fit Connectors

Straight and right-angled versions, with male and female options to solve problem installations.

A2K-TER
Termination Resistors

Terminate your backbone with our male and female resistors to ensure signal integrity.

All A2K Range products have Micro Connectors and Lite cable, UL Certified

A2K Range:
NMEA 2000® Networking

A2K-GC
Gender Changer Cables

Overcome the problem of same gender connections.

A2K-PMW
Panel Mount Wired Connectors

Enable NMEA 2000 installations through watertight bulkheads or panels, with male and female connectors.

A2K-4WD-1
4-Way Drop

Use where multiple drops are required in a single location.

DISCOVER MORE
Visit our website **www.actisense.com** for more information

Our solutions are designed specifically for the Commercial and Leisure sectors. Discover how Actisense products can make a difference to your network.

All A2K Range products have Micro Connectors and Lite cable, UL Certified

Find out more at www.pst-france.fr

Actisense create the best smart-sensing connectivity solutions.

Actisense

NMEA Software

For NMEA network diagnostics or the configuration of Actisense devices, download our free and easy to use software options.

The Actisense team have developed two powerful software tools to enable customers to view and diagnose any potential network problems quickly and easily. Use the free Actisense SDK to write your own software for use with our devices.

NMEA & EBL READER
Software

NMEA Reader can be used with the NGT-1 NMEA 2000 PC Interface to view information from the NMEA 2000 network. NMEA 0183 Information can also be displayed using a USG-2 serial to USB Gateway. EBL Reader allows EBL log files recorded by NMEA Reader to be viewed and analysed.

NMEA Reader:

The NMEA Reader PC software allows Actisense NGT-1 owners to view NMEA 2000 information directly from the network and easily identify problems.

NMEA Reader is incredibly useful as it breaks down the unreadable binary NMEA 2000 messages into easy to read values.

NMEA Reader is adept at displaying NMEA 0183 information, either through the Actisense USG-2 or any other safe connection to a PC like the OPTO-4.

This powerful diagnostic tool helps the user to understand and identify exactly which devices are active on the NMEA 2000 network, providing the details of each one.

EBL Reader:

The EBL Reader utility software allows any EBL log files recorded by NMEA Reader to be viewed.

These recorded data files enable basic diagnostics and the analysis of NMEA 2000 and NMEA 0183 network problems.

This tool has been designed to make life easier for the installer as logged files from NMEA Reader can be viewed and analysed.

SDK
Software Development Kit

The SDK package contains all the documentation, C/C++ source code and example (Visual Studio) projects necessary to understand and integrate the ActisenseComms DLL.

It will allow a software developer to create a communications interface to any compatible Actisense product in a short period of time. Actisense products compatible with the ActisenseComms SDK are:

NGT-1 NMEA 2000 to PC Interface

NGW-1 NMEA Conversion Gateway

The SDK forms the first level of support in using the ActisenseComms DLL to communicate with the NGT-1 and the NGW-1.

The ActisenseComms 'Demo Project' is included in Windows executable C++ source-code and Visual Studio Project form. It is a fully working example of how to use all of the possible API commands to talk to and configure the NGT-1, including how to send and receive NMEA 2000 messages. A simple dialogue program, it has been written specifically to help new developers integrate the ActisenseComms API into their software applications quickly and efficiently. This is the first point of call for all developers, to get started with their project.

To further support the integration we also have:

ActisenseComms VB.Net Wrapper is a starting point for understanding how to 'wrap up' the ActisenseComms DLL in VB.Net friendly code. It allows the C-code interface of the ActisenseComms API to be used easily inside a VB.Net environment. This wrapper example has been kindly supplied by one of our first developers as a guide for other developers. It does not include an example 'Test' project and will require an additional user code to be added to complete the project.

ActisenseComms CS 'C# Wrapper' Test Project is a complete C# working project that 'wraps up' the ActisenseComms DLL in C# friendly code. It allows the C-code interface of the ActisenseComms API to be used easily inside a .Net C# environment. All documentation, C# source code and an example of the 'Test' project which is necessary to understand, prove and use the ActisenseComms C# Wrapper with the DLL is included.

The ActisenseComms SDK and Wrappers are available to download without charge, please contact the Actisense Support Team to discuss your project requirements and obtain the passwords necessary to access the files.

For non-Windows based platforms (Mac, Linux and embedded/PLC), developers should contact the Actisense Support Team to discuss access to the ActisenseComms Component Library.

At Actisense, we love what we do and we love the technology that we create. There is so much we could tell you.

That is why for our website we have created **Geek Mode.**

(Just in case you want to know all the amazing geeky details, just switch it on)

GEEK MODE ON

Actisense®

Some of the sharpest engineering minds in the industry and a relentless drive to innovate, Actisense has achieved a standard of quality and reliability most companies only hope for. Their innovative designs and top-quality manufacturing result in a broad range of solutions infused with durability and value. We are proud to share in their success and without hesitation, recommend Actisense products to our customers.

Peter J. Braffit
General Manager
GEMECO Marine Accessories

Le spécialiste des équipements électroniques