veratron V
MARINE

PRODUCT CATALOGUE

PREMIUM QUALITY FOR ALL BOATS

Outdoor Instrumentation engineered in Switzerland

»

CUTTING EDGE TECHNOLOGY, HIGH-QUALITY DESIGN, PREMIUM MATERIAL. DISCOVER THE LATEST CUTTING EDGE VERATRON MARINE PRODUCTS.

DISCOVER MORE

CONTENT

**Premium outdoor instrumentation
engineered in Switzerland.**

/

VERATRON

LEADING SOLUTIONS FOR DEMANDING INSTRUMENTATION

/

The first choice in the marine business.

Veratron was established to serve its customers with high quality, reliable and durabe products. With 50 years of knowhow in our company, we provide the market with premium electronics for vehicles. Our customers know us for our short time to market from development to start of production and reliable supply. We have all competences on board to deliver high value solutions from first sketches to the final product.

The highest precision and the use of pioneering technologies have always been as important to us as the ease of use and attractive design for all our Marine products. To ensure total reliability – even under the toughest conditions – all our products undergo extensive testing and quality assurance procedures.

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Sailing Boats

/

Power Boats

/

Inflatables

/

PWCs

▶ MORE ABOUT VERATRON

WE ARE CERTIFIED

NMEA 2000®

ISO 9001:2015

ISO 14001:2015

ISO 17025

SWISS ACCREDITATION
sas.admin.ch STS 0695

OUR MISSION, VALUES AND VISION

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Veratron serves its customers with the best equipment created and developed to be reliable even in harsh conditions.

Our values, be it within our company, for our instruments or with our customer, rely on simple words. Loyalty, trust, long-term relations, appreciation, and performance are for Veratron what boats are to ocean. Those values are essential for good and healthy collaborations.

| Loyalty | Trust | Long-Term Relation | Appreciation | Performance |

Our mission implies to be sustainable and in line with our society. Complexity and global interdependencies are transforming our society faster than we ever believed. Since 2005 our company is certified according to the ISO's environmental standards: ISO14001.

Our company is compliant with the current ecological standards. Our products and production processes fulfil the highest environmental standards such as ROHS, Reach, prop 65 and others. Sustainability in everything we do, especially as an industrial company, is of paramount importance with regard to the world we leave to our children.

Veratron AG, management and employees, have been committed for years in the fields of ecology, economy and social issues and thus make their contribution. We will continue to do so in the future.

SUSTAINABILITY STATEMENT

The key to understanding the future is one word: sustainability.

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PATRICK DIXON, AUTHOR AND FUTURIST

OUR KNOW HOW,
TO SERVE YOU BEST.

ENGINEERING SERVICES

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Veratron offers 360° Engineering Services. From software development to hardware engineering, design engineering, product styling and production engineering – we provide world-class engineering competence in product development. We have 50 years of experience in finding perfect solutions for your new product or process.

ENVIRONMENTAL LABORATORY

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The Veratron environmental laboatory has been certified and SAS accredited under ISO/IEC 17025 under STS 0685. We provide independent, competent and cross functional testing of products and components. Our laboratory examines the impact of various environmental conditions on products and components.

PRODUCTION SERVICES

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Our automotive based production offers production services for various electronic products. We offer product styling and CAD design, simulation on Creo and SolidWorks. As experts, we manage the entire chain from 3D animation, mockup building up to the final product including the manufacturing process development.

READ MORE ABOUT OUR SERVICES

Engineering, testing and production of high quality electronic products is our DNA.

/

VERATRON

2014
First development and
production of color display
for marine application

OUR EXPERIENCE, YOUR BENEFIT

Strong history, amazing future

The name has changed several times, but many of the people developing our first-class instruments have been with us since the beginning. 50 years of experience and knowhow have been accumulated within Veratron, allowing us to provide the market with cutting edge technology and premium instruments for vehicles of all kinds.

1972
Foundation of VDO Technik AG at the new production plant in Rüthi, Switzerland.

1989
Expansion of facility and integration of marine business

1992
Start of PCB assembly in Rüthi / Switzerland.

2018
Foundation of the new company Veratron, rebranding

2021
Japanese outboard engines manufacturer added to the customer list

The best way to predict the future is to create it.

ABRAHAM LINCOLN

**The cure for anything is
salt water: sweat, tears or the sea.**

/

ISAK DINESEN

NEW GENERATION, NEW HORIZONS – THE VMH FAMILY

/

High-technology devices for glass cockpit dashboards.

The VMH displays line is the premium class of dashboard instruments designed to perfectly fit into the most modern cockpit concepts.

The elegant look of their optically bonded black glass display makes them the perfect match with your stylish dash. The powerful, sun-readable TFT displays offer the maximum viewing angle. Powered by the latest technology microprocessors, the VMH displays have no fear of managing the most demanding applications.

REACH COMPLIANT   RoHS COMPLIANT   IPX7 COMPLIANT   MINERAL GLASS   SUN-READABLE

CE   UKCA   UL   NMEA 2000

» **One multifunction digital display monitors your engine, tanks, batteries and more!**

VMH 35 MOVIE

**VMH – The perfect device
for outboard engines' monitoring**

»
All your vessel data on a stylish VMH display.

VMH 14

New generation 52 mm EasyLink satellites

KEY FEATURES

- ▼ VMH look-and-feel
- ▼ Digital display with visual bargraph
- ▼ Easylink interface
- ▼ Configurable with smartphone via Airwave ready
- ▼ Trim, Voltmeter, Fuel Level, Water Temperature, Transmission Oil Temperature and Pressure, Engine Oil Temperature and Pressure

AIRWAVE READY **EASYLINK INTERFACE**

Every **VMH MASTER** can control up to 16 **VMH 14** satellites, and the installation cannot be easier with the veratron well-known daisy chain concept.

When combined with a **VMH MASTER** device – like the brand-new **VMH 35** – the instrument will display the data in a bright and digital form thanks to its sun-readable color display with outstanding outdoor performances. The colored bar graph and the alarm display allow you to visually understand your data.

ARTICLE NR.

VMH 14	B000109901

www
DISCOVER MORE

VMH 35

Stylish black glass cockpit design / slim panel profile / powerful core

KEY FEATURES

- ▼ Stylish black-glass design with brushed stainless-steel ring
- ▼ New generation sun-readable color hybrid display
- ▼ Intelligent Battery Sensor (IBS) port
- ▼ Analog to NMEA 2000® gateway
- ▼ Integrated high-performance GNSS receiver
- ▼ NMEA 2000® certified
- ▼ Customizable startup screen

FREQUENCY INPUT **RESISTIVE INPUT** **NMEA 2000 GATEWAY** **GNSS RECEIVER** **EASYLINK INTERFACE**

Designed with stylish mineral glass front lens framed by a brushed stainless-steel ring, it can display a wealth of critical boat system data in a compact package that's perfect for cockpits on smaller vessels with limited space.

The **VMH 35** has an embedded GNSS receiver to support and show navigation information, while it is able to monitor analogue input directly, such as fuel, trim, and tachometer. A special input is dedicated to the Veratron IBS (Intelligent Battery Sensor). It can provide critical 12 V battery monitoring information. All these data are distributed to NMEA 2000® thanks to its embedded certified gateway.

ARTICLE NR.

Resistive / GPS	B00085501
0-5 Volt / GPS	B00143501
0-5 Volt	B00143601

VMH 70

Best-in-class touchscreen display / full control / customizable

- ▼ Veratron VMH premium instruments series
- ▼ 7" sun-readable IPS TFT touchscreen display
- ▼ Slim panel installation profile
- ▼ Mineral glass front lens
- ▼ Reliably operating in high-temperature environments
- ▼ IPX7 protection rating (exposed device)
- ▼ NMEA 2000® certified
- ▼ Fully configurable analog inputs for direct sensor connections with NMEA 2000® gateway
- ▼ Customizable startup screen
- ▼ Dual SAE J1939 CAN ports
- ▼ Easily customizable GUI screens

The best-in-class **VMH 70** display is designed to manage large amounts of complex data, and thanks to its real-time operating system it ensures full control on vital engine information immediately after power up.

Easily configured to display information from up to four engines when connected to NMEA 2000® or two engines via J1939 or analog inputs simultaneously, it has large possible setting. This allows users to group similar items such as single or dual engines, battery performance, fuel, water, waste, tank level, rudder and trim, onboard systems, navigation and weather, if desired.

The device has an integrated light sensor that adjusts for easy reading without eye strain, no matter how bright or dark the conditions, and two camera inputs allow to control the engine compartment during navigation and keep an eye on the main deck while maneuvering.

The embedded NMEA 2000® gateway brings all the sensor readings and alarms to your external multifunctional display, saving the cost of an additional converter.

ARTICLE NR.

VMH 70	B00129201

Intelligent Battery Sensor (IBS) screen to keep your energy supplies under control

Lateral touch buttons are RGB illuminated and allow for a quick brightness adjustment

»

Wealth of boat data in stylish devices.

OCEANLINK™ – CONNECTIVITY AND FLEXIBILITY

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OceanLink™ – precision CAN Instrumentation for Leisure Boats.

It provides a modular instrumentation concept for electronic navigation and engine monitoring with NMEA 2000®, J1939 and analog connectivity. The product line offers a wide range of functions as well as great flexibility in installation and design.

The OceanLink™ series provides three different master instruments as centerpieces of the system: a 4.3" TFT Display, a 7" TFT touch Display and as master instruments 85 mm round gauges. All devices are information powerhouses, multifunctional tachometers and have embedded Gateway from Analog or J1939 to NMEA 2000®.

The OceanLink™ 85 mm Master gauge and the TFT Displays show various available data (e. g. engine data, depth, course over ground and speed over ground), and send it to all NMEA 2000® devices and to up to 16 additional satellite instruments. All instruments come in a new and stylish design, with perfect to read modern dials.

BENEFITS OF USING OCEANLINK™

▼ Easy and effective use
▼ Perfectly readable engine monitoring thanks to increased performance presentation
▼ The EasyLink data connection and the plug & play solution provide a flexible installation of panel, front and flush mounted instruments
▼ Decades of experience guarantee a fully reliable, modern navigation and engine monitoring system with NMEA 2000®
▼ A solid housing design completely sealed against dust and highly water resistant (IPX7 front and rear)
▼ High quality precision instruments designed in Switzerland

FURTHER ADVANCED FEATURES

▼ Master instruments with NMEA 2000® gateway functionality forwarding data, e. g. engine data, to NMEA compatible devices
▼ GPS Speedometer, 85 mm, features NMEA 2000® port, which bridges the position, COG, SOG data to the NMEA 2000® network
▼ Sunlight readable touch screen
▼ IPS TFT Display

REACH COMPLIANT   RoHS COMPLIANT   IPX7 COMPLIANT   MINERAL GLASS   SUN-READABLE

CE   UKCA   UL   NMEA 2000®

OCEANLINK™ TFT DISPLAYS

The **OCEANLINK™** 4.3" and 7" multifunction TFT Displays feature a full 24 bit / 16 m colors optically bonded display with IPS technology for perfect readability even in direct sunlight. The TFT Displays show and distribute a wide array of data received from NMEA 2000® and J1939 CAN Bus systems and analog sensors directly connected to the display. Users can customize different data pages with single, double, triple or quadruple grid layouts.

»

Analog to NMEA gateway included.

OCEANLINK™ 4.3" TFT

OceanLink™ 4.3" TFT Display

- ▼ Optical bonded mineral glass lens
- ▼ Front & rear side protection rating IPX7
- ▼ 1x NMEA 2000® connector
- ▼ 1x J1939
- ▼ 2x 4–20 mA inputs
- ▼ 2x Analog inputs
- ▼ 1x Frequency input
- ▼ 1x EasyLink data output
- ▼ 1x Programmable alarm output 500 mA
- ▼ Operating temperature range -30 °C / +80 °C

OCEANLINK™ 7" TFT

OceanLink™ 7" TFT Display

- ▼ Touch screen function
- ▼ Optical bonded mineral glass lens
- ▼ Front and rear side protection rating IPX7
- ▼ 1x NMEA 2000® connector
- ▼ 2x J1939
- ▼ 6x Analog inputs
- ▼ 2x Frequency inputs
- ▼ 2x 4–20 mA inputs
- ▼ 3x Digital inputs or 0–5 V
- ▼ 2x Alarm outputs
- ▼ 2x Video inputs
- ▼ 2x EasyLink data outputs
- ▼ 2x Programmable alarm outputs 500 mA
- ▼ Operating temperature range -30 °C / +80 °C

VOLTAGE	COLOR	RESOLUTION	ARTICLE NR
4.3" 12–24 V	Black	480 x 272 (WQVGA)	A2C1352150001
7" 12–24 V	Black	800 x 480 (WVGA)	A2C1865330001

AFTERMARKET PACKAGE

TFT Display, Bezel, Silicone Cover, Mounting Screws, Wiring Harness, Safety Instructions.

OCEANLINK™ 85 MM – MASTER GAUGES

OCEANLINK™ small gauges have a white and black dial version, which is always completed with a bezel in identical color. Optionally, a chrome bezel is available as a decorative accessory.

AFTERMARKET PACKAGE

Gauge, Bezel, Rubber Seal, Spinlock, Connection Cable, Safety Instructions.

85 mm GPS Speedometer
0–35 knots/kmh/mph

85 mm GPS Speedometer
0–14 knots/kmh/mph

85 mm Tachometer 3000 rpm

85 mm Tachometer 5000 rpm

GPS SPEEDOMETER

The **OCEANLINK™** GPS Speedometer features an embedded GPS antenna, an inverted dot matrix LCD and NMEA 2000® connectivity. Up to twenty 52 mm satellite gauges can be connected thanks to the integrated EasyLink connectivity.

DISPLAYED DATA

Heading, Depth, Seawater Temperature, Boat Speed, SOG, Date & Time, Battery Status, Air Temperature, Engine Oil Pressure, Fuel Level, RPM, Coolant Temperature, Transmission Gear Temperature, Fresh Water Level, Waste Water Level, Trim, Engine Hours, Rudder Status, Booster Pressure, COG and alarms.

TACHOMETER

The **OCEANLINK™** Tachometer automatically presents all the key boat data on dot matrix digital display. Besides a CAN interface with NMEA 2000® certified and SAE J1939 data protocol it features two digital and one analog inputs. The innovative EasyLink data connection makes the installation easy and cost effective. Satellite instruments for further dynamic measurement values receive updates from the central instrument every 20 msec.

OCEANLINK™ is available in various designs and a number of bezel color options. The instruments can also be conveniently integrated into customer-specific panel solutions. The Tachometer displays all important engine related data and distributes it to up to sixteen 52 mm satellite gauges.

RANGE	VOLTAGE	COLOR	ARTICLE NR
0–14 knots / kmh/mph	12–24 V	Black White	A2C1351970001 A2C1352010001
0–35 knots / kmh/mph	12–24 V	Black White	A2C1351980001 A2C1352080001
0–70 knots / kmh/mph	12–24 V	Black White	A2C1351990001 A2C1352090001

RANGE	VOLTAGE	COLOR	ARTICLE NR
3000 rpm	12–24 V	Black White	A2C1065660001 A2C1065670001
5000 rpm	12–24 V	Black White	A2C1065720001 A2C1065800001
7000 rpm	12–24 V	Black White	A2C1065810001 A2C1065820001

OCEANLINK™ 52 MM – GAUGES

OCEANLINK™ 52 mm Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Up to 16 EasyLink gauges for each Tachometer or GPS Speedometer can be daisy-chained together. **OCEANLINK™** Gauges have a white and black dial version, which is always completed with a bezel in identical color. Optionally a Chrome Bezel can be selected from the accessories list on page 60.

SPECIFICATIONS

- ▼ AMP Superseal Easylink
- ▼ Current consumption < 100 mA
- ▼ 270° pointer deflection angle
- ▼ Reverse polarity protection
- ▼ Anti-fog double layer plastic lens
- ▼ Front & rear protection rating IPX7
- ▼ Operating temperature range -20 °C / +70 °C

AFTERMARKET PACKAGE

Gauge, Bezel, Rubber Seal, Spinlock,
Installation Instructions, Safety Instructions

**Plug-and-Play
serial connection up
to 16 satellites.**

52 mm Coolant Temperature
120 °C / 250 °F

52 mm Engine Oil Temperature
150 °C / 300 °F

52 mm Pyrometer
900 °C / 1650 °F

TEMPERATURE

OCEANLINK™ 52 mm Temperature Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Gauges have anti-fog plastic double lens and choice of three various bezels.

RANGE outer / inner	VOLTAGE	COLOR	ARTICLE NR
Coolant Temperature 120 °C / 250 °F	12 – 24 V	Black White	A2C1065950001 A2C1065970001
Cold / Hot (250 °F)	12 – 24 V	Black White	A2C1065980001 A2C1065990001
Engine Oil Temperature 150 °C / 300 °F	12 – 24 V	Black White	A2C1065850001 A2C1065860001
Cold / Hot (300 °F)	12 – 24 V	Black White	A2C1065870001 A2C1065880001
Pyrometer 900 °C / 1650 °F	12 – 24 V	Black White	A2C1349690001 A2C1349710001
1650 °F / 900 °C	12 – 24 V	Black White	A2C1349700001 A2C1349730001

52 mm Boost Pressure,
2 bar / 30 psi

52 mm Engine Oil Peressure,
Low / High

52 mm Transmission Oil Pressure,
30 bar / 440 psi

PRESSURE

OCEANLINK™ 52 mm Pressure Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Gauges have anti-fog plastic double lens and choice of three various bezels.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Boost Pressure 2 bar / 30 psi	12 – 24 V	Black White	A2C1066140001 A2C1066150001
Low / High (30 psi)	12 – 24 V	Black White	A2C1066160001 A2C1066170001
Engine Oil Temperature 10 bar / 150 psi	12 – 24 V	Black White	A2C1066000001 A2C1066010001
Low / High (150 psi)	12 – 24 V	Black White	A2C1066020001 A2C1066030001
Transmission Oil Pressure 30 bar / 440 psi	12 – 24 V	Black White	A2C1066040001 A2C1066050001
Low / High (440 psi)	12 – 24 V	Black White	A2C1066060001 A2C1066070001

52 mm Fuel Level
Empty – Full

52 mm Fresh Water Level
Empty – Full

52 mm Waste Water Level
Empty – Full

LIQUID LEVEL

OCEANLINK™ 52 mm Liquid Level Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Gauges have anti-fog plastic double lens and choice of three various bezels.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Fuel Level Empty – Full	12 – 24 V	Black White	A2C1065930001 A2C1065940001
Fresh Water Empty – Full	12 – 24 V	Black White	A2C1065910001 A2C1065920001
Waste Water Empty – Ful	12 – 24 V	Black White	A2C1065890001 A2C1065900001

**OCEANLINK®
INSTRUMENTS**

52 mm Voltmeter 16 – 32 V

52 mm Current -150 / +150 A

52 mm Engine Trim

52 mm Rudder Angle

BATTERY STATUS

OCEANLINK™ 52 mm Battery Status Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Gauges have anti-fog plastic double lens and choice of three various bezels.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Current -60 / +60 A	12 – 24 V	Black White	A2C1349640001 A2C1349660001
-150 / +150 A	12 – 24 V	Black White	A2C1349650001 A2C1349680001
Voltage 8 – 16 V	12 – 24 V	Black White	A2C1066100001 A2C1066110001
16 – 32 V	12 – 24 V	Black White	A2C1066120001 A2C1066130001

VESSEL STATUS

OCEANLINK™ 52 mm Vessel Status Gauges are connected directly to any **OCEANLINK™** Master unit using the patented EasyLink serial bus connection. Gauges have anti-fog plastic double lens and choice of three various bezels.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Rudder Angle 90°	12 – 24 V	Black White	A2C1066080001 A2C1066090001
Engine Trim Up / Down	12 – 24 V	Black White	A2C1065830001 A2C1065840001

Land was created to provide a place for boats to visit.

/

BROOKS ATKINSON

VIEWLINE – EASY TO INSTALL, EASY TO CUSTOMIZE, EASY TO USE

/

ViewLine offers a comprehensive modular, modern series of instruments for engine monitoring.

More functions and greater flexibility in installation and design increase the scope for high manufacturing standards and guarantee the highest level of reliability and readability. As the result of ongoing research and development work, we offer an innovative, comprehensive standard instrumentation platform which is also available for outboard engine use. ViewLine provides maximum freedom to customize the cockpit and is the natural choice for an attractive price / performance ratio.

BENEFITS OF USING VIEWLINE

▼ Anti-fog plastic double lens, maximum precision and stylish design with choice of nine various bezels.
▼ Our plug and play solution design concept offers a high level of installation flexibility for panel, front and flush mounted instruments.
▼ ViewLine offers maximum freedom in respect of cockpit customization.
▼ We ensure seamless integration and optimum utilization of ViewLine devices for extreme sea conditions.

Live your life by a compass, not a clock.

/

STEPHEN R. COVEY

VL FLEX SERIES

All-in-one / universal / contactless device configuration / all-rounder

The **VL FLEX** device can easily be configured to be the instrument you need - thanks to its sun-readable 1.44" TFT display embedded into a standard 52 mm instrument housing. The supported analog inputs allow you to directly read from your engine sensors, and the NMEA 2000® or J1939 interface expands this possibility by allowing the device to read from the digital network. The simple but effective graphic design can be set up in a single or dual layout, presenting the data in a clear and intuitive form, while the colored bar graph and the alarm display allow you to visually understand your data.

GENERAL FEATURES

- ▼ 52 mm instrument with 1.44" TFT display
- ▼ 2 instruments in 1 with dual screen
- ▼ Wireless configurable with your smartphone
- ▼ Powerless configuration
- ▼ Custom alarms setup
- ▼ Color bar graphs for visual data display
- ▼ 9 different styling rings available

WIRELESS CONFIGURATION IN JUST 3 STEPS:

1 ———————— 2 ———————— 3

Read   Configure   Write

CONFIGURATOR SMARTPHONE APP

- ▼ To configure the **VL FLEX**, some parameters must be calibrated, like the gauge type, the sensor and its calibration or the warning threshold. This is possible through the **»VL FLEX CONFIGURATOR«** smartphone App.
- ▼ A simple and detailed explanation of the configuration process is also available as in-app instructions.
- ▼ Thanks to the passive embedded NFC receiver, the VL Flex 52 can be configured without power supply.

TECHNICAL DATA

Display	1.44" sun-readable color TFT display
Resolution	125 x 125 pixels
Nominal Voltage	12 V / 24 V
Operating Voltage	8 – 32 V with overvoltage and reverse polarity protection
Current consumption	Typ. 50 mA with max. backlight intensity
Analogue ports	Resistive (0 – 400 Ω), Frequency (W, Ind, Hall, Generator)
Digital ports	NMEA 2000® or J1939, LIN bus
Wireless interface	Airwave (NFC-Based)
Protection class	IP 67 front side acc. IEC60529
Lens	PMMA with anti-glare and anti-fog
Housing	Ø 52 mm – Polycarbonate (PC), flame retardant acc. UL94-V0
Operating temperature	-20°C to +70°C
Storage temperature	-30°C to +80°C
Connector	Tyco / Hirschmann MQS connector 8 pin

REACH COMPLIANT · RoHS COMPLIANT · IPX7 COMPLIANT · NMEA 2000 · CE · UKCA · UL

Single layout   Dual layout

» DOWNLOAD THE CONFIGURATOR APPS

Get it on Google play · Available on the App Store

NMEA 2000®

The supported analog inputs allow you to directly read from your engine sensors. In addition NMEA 2000® and LIN 2.0 interface expands this possibility by allowing the device to read from the digital network.

FEATURES

- ▼ NMEA 2000 compatible
- ▼ Configurable Resistive and frequency inputs
- ▼ IBS port for battery monitoring
- ▼ Custom alarm setup
- ▼ 23 data available in different units
- ▼ Wireless configurable via smartphone App

ARTICLE NR.

NMEA 2000® White	B00111301
NMEA 2000® Black	B00043501

J1939

The supported analog inputs allow you to directly read from the sensors. In addition, the J1939 and the LIN 2.0 interfaces make it possible for the VL Flex to read from the digital networks as well.

FEATURES

- ▼ SAE J1939 compatible
- ▼ Configurable Resistive and frequency inputs
- ▼ IBS port for battery monitoring
- ▼ Custom alarm setup
- ▼ 29 data available in different units
- ▼ Wireless configurable via smartphone App

ARTICLE NR.

J1939 White	B00110901
J1939 Black	B00086001

IBM

The Intelligent Battery Monitoring System informs you about the current energy status, allowing you to plan your energy supply making it the key element of the vehicle's energy management.

FEATURES

- ▼ Flex display kit for Battery monitoring
- ▼ 1x Resistive input for Fuel or Fresh Water level
- ▼ Dedicated harness with pushbutton for screen scrolling
- ▼ Battery charge notification

ARTICLE NR.

IBM 12 V	B00084701
IBM 24 V	B00084801

» **VL Flex combines two instruments in one, is cost-saving and practical.**

COCKPIT BRACKET	ARTICLE NR
with integrated push button	B00100901
without pushbutton	B00100801

VIEWLINE 110 MM GAUGES

VIEWLINE accessories bezel concept offers true design flexibility in the layout of instrument panels. The three attractive designs in black, white and chrome are suitable for every machinery instrument panel or special vehicle cockpit.

Based on the **VIEWLINE** housing concept, the cluster provides an ideal IP protection class, a modern appearance and high quality standards. It provides many parameters in NMEA 2000® and there are several customization opportunities to meet specific customer demands.

AFTERMARKET PACKAGE

Gauge, GPS speed cable, Bezel, Pushbutton for mode and configuration, Rubber Seal, Spinlock, Drilling Template, Installation Instructions, Safety Instructions.

110 mm GPS Speedometer
0–12 knots / kmh / mph

110 mm GPS Speedometer
0–70 knots / kmh / mph

GPS SPEEDOMETER

The GPS Speedometer features an embedded GPS antenna, a fixed segment LCD, and able to read NMEA 2000. The external push button allows to display different data on the LCD.

SPECIFICATIONS

- ▼ Embedded GPS antenna
- ▼ Robust and flexible design for versatile applications
- ▼ CAN capability (NMEA 2000®)
- ▼ Pointer for analog indication of Speed over Ground (SOG)
- ▼ Programmable speed alarm
- ▼ Fixed segment LCD
- ▼ Flush mount possibility
- ▼ Front side protection rating IP67
- ▼ Compass for Course over Ground (COG)
- ▼ Clock
- ▼ 110 mm installation diameter
- ▼ 126 mm outer diameter
- ▼ 50 mm installation depth
- ▼ Reverse polarity protection
- ▼ 1x Telltale generic alarm
- ▼ 1x Telltale alarm (knots / kmh / mph)

RANGE	VOLTAGE	COLOR	ARTICLE NR
0–12 knots / kmh / mph	8.5–16 V	Black	A2C59501987
0–35 knots / kmh / mph	8.5–16 V	Black	A2C59501782
0–70 knots / kmh / mph	8.5–16 V	Black	A2C59501781

DISPLAYED DATA

GPS signal quality, Course over ground (COG), UTC time (optional with external push button), Trip distance (optional with external push button), Trip time (optional with external push button)

VIEWLINE 85 MM GAUGES

The **VIEWLINE** 85 mm Gauges are available in black or white dial versions, which are always completed with a round bezel in identical color. **VIEWLINE** accessories bezel concept offers true design flexibility in the layout of instrument panels. The three attractive designs in black, white and chrome are suitable for every machinery instrument panel or special vehicle cockpit.

AFTERMARKET PACKAGE

Gauge, GPS speed cable, Bezel, Pushbutton for mode and configuration, Rubber Seal, Spinlock, Drilling Template, Installation Instructions, Safety Instructions.

SPECIFICATIONS

▼ 8 and 14 pole Tyco / Hirschmann bush housing
▼ Operating voltage 8 – 32 V
▼ Accuracy +/- 2.5 % of full scale reading
▼ < 175 mA current consumption with an LED warning light as standard
▼ Number of pulses programmable via dip switch or PC software (ViewLine programming tool)
▼ Anti-fog double lens
▼ Protection rating front IP67, rear IP52
▼ 85 mm installation diameter
▼ 50 mm installation depth
▼ Operating temperature range -20°C / +70°C

» **Black, white or chrome. Choose the design fitting in your cockpit.**

Speedometer / 0 – 60 kmh

SPEEDOMETER

The **VIEWLINE** 85 mm Speedometer with LCD and push button included offers plug and play solution concept and installation flexibility for panel, front and flush mounted instruments.

RANGE	VOLTAGE	COLOR	BEZEL	ARTICLE NR
0 – 60 kmh	12 – 24 V	Black	Triangular black	A2C59512367
0 – 120 kmh	12 – 24 V	Black	Triangular black	A2C59512369
0 – 200 kmh	12 – 24 V	Black	Triangular black	A2C59512370
0 – 300 kmh	12 – 24 V	Black	Triangular black	A2C59512371

85 mm Engine Revolution, Engine Hours, Voltage and Clock, 5000 rpm

85 mm Engine Revolution, Engine Hours, Voltage and Clock, 3000 rpm

ENGINE REVOLUTION, ENGINE HOURS, VOLTAGE AND CLOCK

The **VIEWLINE** Tachometer is available with or without operating hours counter (digital display) and can be connected to conventional marine engines (no data bus). One LED warning light is integrated as a standard.

SPECIFICATIONS

▼ Current consumption < 175 mA, with warning light (LED)
▼ Output for acoustic alert (option)
▼ Various sensor inputs
▼ LCD size 37 mm x 11 mm
▼ Individually programmable display e. g., for clock, trip, odometer, etc. via externally switchable button or PC software (ViewLine programming tool)
▼ Reverse polarity protection

RANGE	VOLTAGE	COLOR	INPUT	ARTICLE NR
3000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512390 A2C59512396
4000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512391 A2C59512397
5000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512392 A2C59512398
6000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512393 A2C59512399
7000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512394 A2C59512400
8000 rpm	8 – 32 V	Black White	W, Ind, Hall, Generator	A2C59512395 A2C59512401

* With Pushbutton for mode and configuration

85 mm Engine Revolution of two engines -500 / +500 rpm

SYNCHRONIZER

On pleasure boats with twin engine installations, the **VIEWLINE** synchronizer is an indispensable aid to ensure correct synchronized running of both units.

RANGE	VOLTAGE	COLOR	INPUT	ARTICLE NR
-500 / +500 rpm	8 – 32 V	Black White	W, 1, Ind	A2C59512402 A2C59512403

85 mm Rudder Angle -45° / +45°

VESSEL STATUS

The **VIEWLINE** rudder angle instrument for wheel-controlled yachts and pleasure boats displays the current rudder position at all times. This indicator makes it easier to navigate out of harbors or through locks. The gauge is available in 52 and 85 mm installation diameters. Only rudder instruments of the same diameter can be combined.

RANGE	VOLTAGE	COLOR	INPUT	ARTICLE NR
-45° / +45°	8 – 32 V	Black White	3 – 180 Ω	A2C59512410 A2C59512411

VIEWLINE 52 MM GAUGES

The **VIEWLINE** 52 mm Gauges are available in black or white dial versions, which are always completed with a round bezel in identical color. **VIEWLINE** accessories bezel concept offers true design flexibility in the layout of instrument panels. The three attractive designs in black, white and chrome are suitable for every machinery instrument panel or special vehicle cockpit.

AFTERMARKET PACKAGE

Gauge, Bezel, Rubber Seal, Spinlock, Connection Cable, Installation Instructions, Safety Instructions, Card for online manuals

SPECIFICATIONS

- ▼ 8 pole Tyco / Hirschmann MQS plug
- ▼ +/- 3.6° angle degree accuracy over the entire display range
- ▼ Operating voltage 8 – 32 V
- ▼ Integrated warning alarm
- ▼ Input signal: standard Ω values
- ▼ Optional make-point switch can be connected
- ▼ Reverse polarity protection
- ▼ Anti-fog double lens
- ▼ Front side protection rating IP67
- ▼ 52 mm installation diameter
- ▼ 50 mm installation depth

52 mm Coolant Temperature
250 °F / 120 °C

52 mm Engine Oil Temperature
150 °C / 300 °F

52 mm Pyrometer
1650 °F / 900 °C

52 mm Outside Temperature
+120 °F / +50 °C

TEMPERATURE

VIEWLINE Temperature gauges with Anti-fog plastic double lens promise maximum precision and stylish design with choice of nine various bezels. One LED warning light is integrated as a standard.

RANGE outer/inner	VOLTAGE	COLOR	INPUT	ARTICLE NR
Coolant Temperature				
120 °C / 250 °F	8 – 32 V	Black White	287.4 – 22.7 Ω	A2C59514170 A2C59514237
250 °F / 120 °C	8 – 32 V	Black White	287.4 – 22.7 Ω	A2C59514176 A2C59514241
Engine Oil Temperature				
150 °C / 300 °F	8 – 32 V	Black White	322.8 – 18.6 Ω	A2C59514160 A2C59514231
Cold / Hot (300 °F)	8 – 32 V	Black White	322.8 – 18.6 Ω	A2C59514165 A2C59514234
Pyrometer				
900 °C / 1650 °F	8 – 32 V	Black White	37 mV	A2C59512332 A2C59512333
1650 °F / 900 °C	8 – 32 V	Black White	37 mV	A2C59512334 A2C59512335
Outside Temperature				
+50 °C / +120 °F	8 – 32 V	Black White	2k Ω	A2C59512336 A2C59512338
+120 °F / +50 °C	8 – 32 V	Black White	2k Ω	A2C59512337 A2C59512339

52 mm Boost Pressure
2 bar / 30 psi

52 mm Engine Oil Pressure
30 bar / 435 psi

52 mm Transmission Oil Pressure
25 bar / 350 psi

PRESSURE

VIEWLINE 52 mm Pressure Gauges are equipped with a red warning LED as a standard. The warning point depends on the chosen pressure sensor with warning contact or can be controlled by installing a make-point switch. Anti-fog plastic double lens, maximum precision and stylish design with choice of nine various bezels. The 0–5 Volt Gauge compatible with Electronic Pressure Sensors displays the engine or gearbox oil pressure.

RANGE outer/inner	VOLTAGE	COLOR	INPUT	ARTICLE NR
Boost Pressure				
2 bar / 30 psi	8–32 V	Black White	10–184 Ω	A2C1957380001
Engine Oil Pressure				
5 bar / 80 psi	8–32 V	Black White	10–184 Ω	A2C59514123 A2C59514211
80 psi / 5 bar	8–32 V	Black White	10–184 Ω	A2C59514128 A2C59514214
10 bar / 150 psi	8–32 V	Black White	10–184 Ω	A2C59514111 A2C59514199
150 psi / 10 bar	8–32 V	White	240–33.5 Ω	A2C59514202
Transmission Oil Pressure				
25 bar / 350 psi	8–32 V	Black White	10–184 Ω	A2C59514136 A2C59514206
30 bar / 435 psi	8–32 V	Black White	10–184 Ω	A2C59514141 A2C59514208
400 psi / 25 bar	8–32 V	Black White	10–184 Ω	A2C59514145 A2C59514223
10 bar	12–24 V	Black	0–5 V	A2C1278230001
30 bar	12–24 V	Black	0–5 V	A2C1278250001

52 mm Fresh Water
0 – 1/1

LIQUID LEVEL

VIEWLINE 52 mm Liquid Level gauges with anti-fog plastic double lens promise maximum precision and stylish design with choice of nine various bezels. One LED warning light is integrated as a standard.

RANGE outer/inner	VOLTAGE	COLOR	INPUT	ARTICLE NR
Engine Oil Pressure				
Empty – Full	8–32 V	Black White	0–90 Ω	A2C59514085 A2C59514186
0 – 1/1	8–32 V	Black White	3–180 Ω	A2C59514082 A2C59514184
Empty – Full	8–32 V	Black White	240–33.5 Ω	A2C59514094 A2C59514190
0 – 1/1	8–32 V	Black White	90–4 Ω	A2C59514079 A2C59514182
Empty – Full	8–32 V	Black White	90–4 Ω	A2C59514088 A2C59514188
Fresh Water (capacitive)				
0 – 1/1	8–32 V	Black White	4–20 mA	A2C59514676 A2C59514677
Fresh Water (resistive)				
0 – 1/1	8–32 V	Black White	3–180 Ω	A2C59514097 A2C59514192
Empty – Full	8–32 V	Black White	3–180 Ω	A2C59514099 A2C59514193
Waste Water				
0 – 1/1	8–32 V	Black White	4–20 mA	A2C59512342 A2C59512343

| 52 mm Current −60 / +60 A | 52 mm Voltage 18 – 32 V | 52 mm Rudder Angle −40° / +40° | 52 mm Engine Trim |

BATTERY STATUS

VIEWLINE Ammeter shows the level of current being drawn and the current supply. The voltmeter displays the status of generator and battery and their loads on a voltage scale.

RANGE outer/inner	VOLT.	COLOR	INPUT	ARTICLE NR
Current				
−60 / +60 A	8 – 32 V	Black White	60 mV	A2C59512328 A2C59512330
−150 / +150 A	8 – 32 V	Black White	60 mV	A2C59512329 A2C59512329
Voltage				
8 – 16 V	8 – 16 V	Black White	8 – 16 VDC	A2C59512545 A2C59512546
18 – 32 V	18 – 32 V	Black White	18 – 32 VDC	A2C59512458 A2C59512459

VESSEL STATUS

Available in 52 and 85 mm the **VIEWLINE** rudder angle indicator makes it easier to navigate out of harbors or through locks.

RANGE outer/inner	VOLT.	COLOR	INPUT	ARTICLE NR
Rudder Angle				
−40° / +40°	8 – 32 V´	Black White	3 – 180 Ω	A2C59514154 A2C59514230
Engine Trim				
up / down	8 – 32 V	Black White	167 – 10 Ω	A2C59514180 A2C59514244

| 52 mm Hour Counter-Voltmeter | 52 mm Clock | Accoustic Buzzer | Warning Gauge with optional white round bezel |

HOUR COUNTER-VOLTMETER

VOLTAGE	COLOR	ARTICLE NR
9 – 48 V	Black round bezel White round bezel	B00005302 B00006302
9 – 48 V	Black triangular bezel White triangular bezel	B00005303 B00006303

ACOUSTIC BUZZER

VOLTAGE	COLOR	ARTICLE NR
12 – 24 V	Black round bezel	B00109001

CLOCK

VOLTAGE	COLOR	ARTICLE NR
8 – 16 V	Black round bezel White round bezel	A2C59513445 A2C59513443
8 – 32 V	Black triangular bezel White triangular bezel	A2C59513446 A2C59513444

WARNING GAUGE

VOLTAGE	COLOR	ARTICLE NR
8 – 16 V	White dial, black flat bezel	B00015501

NAVIGATION – WHERE THE WIND TAKES YOU

MAST DISPLAY UNITS

The **VERATRON** mast brackets are an elegant and efficient solution for mast installation. They hold either one (portrait mode) or three (landscape mode) 7" TFT displays and a rear cover is available with minimum installation space thanks to the **ACQUALINK™** daisy-chain between displays. Thanks to the easy touch-based interaction to setup the pages, the TFTs can display up to 16 data, s uch as wind, speed, depth but also battery voltage and distances.

The Mast Display functionality is implemented in all 7" ACQUALINK™ TFTs
▼ Landscape and Portrait orientation
▼ Automatic detection of AcquaLink™ NavBox to self configure as Mast Display

AFTERMARKET PACKAGE

Triple: Carbon Bracket (B00028501), 3x 7" **ACQUALINK™** Displays with Black Bezel and Silicone Cover, NMEA 2000® Adapter Cable, Terminator, Cables.

Single: Aluminium Bracket, 1x 7" **ACQUALINK™** Display with Black Bezel and Silicone Cover, NMEA 2000® Adapter Cable, Terminator, Cables.

TECHNICAL SPECIFICATIONS:

▼ as ACQUALINK™ 7" TFT Displays
▼ IPS technlogy display
▼ High readability
▼ NMEA 2000® compatible
▼ IP67 exposed
▼ Touch screen with swipe function
▼ Touch buttons
▼ Operating temperature range design for -30°C to +80°C

MAST DISPLAY UNIT	ARTICLE NR
Triple	B00033101
Single	B00044701

Mast Display Unit Triple

Mast Display Unit Single

AcquaLink™ 7" TFT Display

SPECIFICATIONS:

- ▼ 4.3": 1 x plug with 2 x Video Input
- ▼ 7": 2 x plugs with 4 x Video Input
- ▼ 2 x VDO Bus connectors
- ▼ Operating temperature range -30 °C/+80 °C
- ▼ Protection level front and rear IPX9K with connectors plugged

TFT DISPLAYS

ACQUALINK™ multifunction TFT Displays are available in 4.3" and 7" sizes. The full 24 bit/16 m colors optically bonded IPS technology displays feature transmissive layer technology for unprecedented and unsurpassed readability even in direct sunlight. The TFT Displays show a wide array of data received from the **ACQUALINK™ NAVBOX** or NMEA 2000®. Users can customize up to 40 different data pages with single, double, triple or quadruple grid layouts.

The Displays can be daisy-chained with other **ACQUALINK™** gauges, displays or NavControls using the unique VDO Bus or directly connected to the NMEA 2000® backbone (optional adapter cable required) for simple installation on any yacht.

7" TFTs are equipped with capacitive multi touch screens to slide between pages whereas 4.3" displays require the use of a NavControl unit for data input and operation.

AFTERMARKET PACKAGE

TFT Display, Black Bezel, Silicone Cover, Mounting Screws, Drilling Template, Installation Instructions, Safety Instructions.

* Optionally white bezel can be selected from the accessories p 60.

VOLT.	RESOL.	ART. NR
4,3"		
12-24 V	480 x 272 (WQVGA)	A2C59501996
7"		
12-24 V	800 x 480 (WVGA)	A2C59501997

NAVIGATION

The **OCEANLINK™** Navigation gauges display compass, wind angle, apparent wind angle magnified, wind speed and depth information received from NMEA 2000® data bus.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Compass			
360°	12-24 V	Black	A2C1957380001
Wind Angle			
360°	12-24 V	Black	A2C1957400001
Apparent Wind Angle Magnified			
360°	12-24 V	Black	A2C1957390001
Wind Speed			
0 – 50 knots	12-24 V	Black	A2C1957420001
Depth			
200 m / 660 feet	12-24 V	Black	A2C1957360001

85 mm Wind Angle Magnified

Professional Rudder Angle Indicator

PROF. RUDDER ANGLE INDICATOR

The **OCEANLINK™** Professional Rudder Angle Indicator suits any commercial appications thanks to the embedded NMEA 0183 transreceiver. Its infrared push button allows for a user-friendly fine tuning of the predefined calibration.

RANGE	VOLTAGE	COLOR	ARTICLE NR
Rudder			
-45°/+45°	8-32 V	Black	B00067401

NAVCONTROL

The **NAVCONTROL** can assume control of any TFT Display connected to the VDO Bus or NMEA 2000® network. Even multiple units can be connected to the same Bus without conflicts.

NavControl

- ▼ Compatible with AcquaLink™ and OceanLink™
- ▼ 2x VDO Bus connectors
- ▼ Operating temperature range -30°C / +80°C
- ▼ Protection level IPX6
- ▼ Reverse polarity protection
- ▼ Telltales light indication

AFTERMARKET PACKAGE

NavControl, Black Bezel, Silicone Cover, Mounting Screws, Drilling Template, Installation and Safety Instructions.
* Optionally white bezel can be selected from the accessories p. 60

VOLT.	COLOR	ARTICLE NR
12 – 24 V	Black	A2C59501982

NAVBOX

The **ACQUALINK™ NAVBOX** is the core of the **ACQUALINK™** system. It acts as a CPU and signal interface. The NavBox provides a wide range of digital and analog input possibilities. It supports up to four electronic engines (J1939 or NMEA 2000®) or one analog engine. It also features two Sumlog™ paddle wheel sensor and one analog Wind Sensor connections, so legacy products can be used and brought to the digital age.

NavBox

NAVBOX READS FOLLOWING ANALOG DATA:

- ▼ Engine Oil Pressure
- ▼ Engine Oil Temperature
- ▼ Engine Coolant Temperature
- ▼ Transmission Oil Pressure
- ▼ Voltage
- ▼ Engine Frequency
- ▼ Fresh Water, Waste Water and Fuel Level
- ▼ Rudder Angle
- ▼ Battery Current
- ▼ Amperemeter

It also features a NMEA 0183 input and output port as well as a buzzer output. All the data received are converted and sent to the NMEA 2000® network and to the VDO Bus. This gateway function allows displaying engine, liquid level, pressure, temperature and other vital information on any compatible display on the NMEA 2000® network or on designed AcquaLink™ devices. The configuration of the NavBox can be done by using either an AcquaLink™ TFT and NavControl or by using the intuitive configuration tool.

- ▼ Reverse polarity protection
- ▼ NMEA 2000® certified
- ▼ LED signal status indication
- ▼ Aluminum base plate
- ▼ Front+rear side protection rating IPX4
- ▼ 3x VDO bus lines
- ▼ 1x J1939 CAN bus
- ▼ 1x NMEA 2000® bus
- ▼ 1x Analog Wind Sensor Input
- ▼ 2x Sumlog™ Inputs
- ▼ AMP Super Seal power input
- ▼ 26 pin AUX input (analog signals, NMEA 0183)
- ▼ Operating temperature range -20°C / +70°C

AFTERMARKET PACKAGE

NavBox, Power cable & fuse, 26 pin harness with USB interface termination resistors (3 pc.), Mounting Screws, Safety-, Installation and Operation Manual, Drilling Templates.

VOLTAGE	ARTICLE NR
12 – 24 V	A2C59501979

NAVSENSOR

The multifunctional **ACQUALINK™** NavSensor offers an inertial sensor with a GNSS receiver module to provide the accurate readings of speed of travel as well as pitch & roll. Compass readings can be displayed electronically thanks to the embedded Fluxgate compass, which also facilitate course corrections in electronic autopilots. The barometer and air temperature sensors are early indicators of forthcoming weather conditions.

SPECIFICATIONS

- ▼ NMEA 2000® certified
- ▼ IPX6 extended protection rating
- ▼ GPS Module: Position, time, boats vector, signal quality, satellites
- ▼ Compass: +/-40° tilt angle, <2° accuracy, alarm (rapid field strength change, tilt angle overrun, undervoltage condition)
- ▼ Barometer and air temperature sensor
- ▼ Operating temperature range -20°C/+70°C

AFTERMARKET PACKAGE

NavSensor, 2x brackets, Installation and Safety Instr.

VOLTAGE	ARTICLE NR
12 – 24 V	A2C59501981

WIND SENSORS

The wind vane turns in the direction of the wind and steers the wind direction gauge. The wind cups record the relative wind speed which in turn is displayed on the wind speed gauge.

VARIANT	ARTICLE NR
Wind Short Arm Sensor NMEA 2000®	A2C59501984
Wind Short Arm Sensor Analogue	A2C59501983

NMEA 2000® TRIDUCER SENSOR

Through-hull 100 W multisensor provides depth, speed, attitude and seawater temperature data. The sensor is NMEA 2000® certified and thanks to the built-in Bluetooth Low Energy interface can be easily calibrated with your smartphone.

VOLTAGE	ARTICLE NR
9 – 16 V	IDST 810-40-01

VERATRON GO. ONE LOOK - DIFFERENT FUNCTIONS.

VERATRON GO is NMEA 2000® certified and features an integrated GPS/GLONASS/GALILEO receiver. Compact and easy to install, it does not require any additional protection against harsh weather conditions. The **GO PLUS** variant integrates a Bluetooth 5.1 Low Energy interface allowing the visualization of boat data on your portable devices, such as smartphone or tablet. The DATA variant provides you with Bluetooth.

KEY FEATURES

- ▼ High-performance GNSS receiver
- ▼ 10 Hz update rate 72 channels
- ▼ Very high tracking sensitivity
- ▼ Bluetooth Low Energy gateway
- ▼ All your vessel data on your smart device
- ▼ Powered by NMEA 2000® network
- ▼ NMEA 2000® certified
- ▼ Global BLE certified

»

Smallest NMEA 2000® GNSS antenna on the market.

ART. NR. B00034901

GO GPS

VERATRON GO is the smallest NMEA 2000® certified GNSS receiver on the market which supports GPS / GLONASS / GALILEO constellations. Compact and easy to install, it does not require any additional protection against harsh weather conditions.

ART. NR. B00041601

GO DATA

VERATRON GO DATA is an NMEA 2000® to Bluetooth Low Energy (BLE) gateway. Together with the Veratron smartphone and tablet apps you can monitor your engine, read your sailing performance data, keep an eye on your batteries status and receive alarm notifications.

ART. NR. B00041701

GO PLUS

VERATRON GO PLUS+ is a combined GPS receiver and NMEA 2000® to Bluetooth Low Energy (BLE) gateway and combines all the features of the Veratron GO and the Veratron GO Data devices in a single unit.

61
18.9
36.5

Illustration in mm in scale 1:1

DOWNLOAD THE NAVDASH APP

Available on the App Store

Get it on Google play

ACCESSORIES	ARTICLE NR
Top-mount bracket for Veratron Go (with screws)	B00062402

DISCOVER
MORE

ELECTRONIC CONTROL UNITS AND GATEWAYS

ENGINE BOX

The ENGINEBOX expands the possibilities of the NavBox for multi-engine applications or can be used as stand-alone when navigation information is not required. The EngineBox has a NMEA 2000® and a J1939 CAN port. The EngineBox can also be used on older, completely analog engines, thanks to the analog input ports provided and designed for RPM data, resistive sensors and capacitive sensors.

The ENGINEBOX is available in 2 versions: Single Engine and Dual Engine. The Dual Engine version is designed with doubled frequency and resistive inputs. It allows for a simplified installation wiring within minimized required installation space, therefore reducing the commissioning time.

The EngineBox has to be set up using an intuitive PC configuration tool making it easy for programming the inputs (delivered free of charge). Thanks to the ISO 8846:1990 compliance, the EngineBox is also designed to be installed in engine compartments.

SPECIFICATIONS

- ▼ Analog to NMEA 2000® gateway
- ▼ J1939 to NMEA 2000® gateway
- ▼ 2 Models for single engine and dual engine configurations
- ▼ Compact design
- ▼ Status LED
- ▼ Operating temperature range -40°C/+85°C

- ▼ 1x J1939 (2x J1939 Dual Engine)
- ▼ 1x M12 5 pins NMEA 2000®
- ▼ 1x Input 0–4 kHz for RPM (2 inputs with Dual Engine Model)
- ▼ 4x Input 0–400 Ω (up to 8 inputs with Dual Engine Model)
- ▼ 2x Input 4–20 mA
- ▼ 1x Input 0–5 V (2 inputs with Dual Engine Model)

EngineBox

AFTERMARKET PACKAGE

EngineBox, Cable Harness, Safety Instructions

ENGINE	ARTICLE NR
Single Engine	A2C1824820001
Double Engine	A2C1767000001

INNOVATION AWARDS WINNER

THE LINKUP SERIES

Single function gateways to integrate sensor readings to NMEA 2000®

The **LINKUP GATEWAYS** provide an easy method to convert vessel and engine information to NMEA 2000®. Available in 8 different variants: resistive, voltage, LIN and J1939, those can be easily configured through either the embedded NFC-based Airlink interface or NMEA 2000® by means of our Configuration Tool. The ISO 8846:1990 compliance completes the devices by allowing their installation into engine compartments.

- ▼ Save the money of an overdesigned NMEA 2000® converter
- ▼ Reduces the wiring, the gateway is installed where needed
- ▼ Contactless configuration with your smartphone, no expensive HW required!
- ▼ Powered by NMEA 2000® - no additional power supply
- ▼ Approved for engine compartment installation according to ISO 8846:1990

DOWNLOAD THE MOBILE APP

VARIANTS	ARTICLE NR
LinkUp Resistive	B00042201
LinkUp Pyrometer	B00042301
LinkUp IBS 12 V / 12 V II	B00042501 / B00042502
LinkUp IBS 24 V	B00070401
LinkUp 2-in-1	B00070501
LinkUp J1939	B00042401
LinkUp 0-5 Volt	B00059201

AIRWAVE READY

WIRELESS CONFIGURATION IN JUST 4 STEPS:

1 Near your smartphone to the LinkUp area

2 Select the sensor and type in its configurations

3 Configure an alarm

4 Tap again your smartphone onto the LinkUp to program it instantly!

REACH COMPLIANT · RoHS COMPLIANT · IPX7 COMPLIANT · CE · UKCA · UL · NMEA 2000

LINK UP GATEWAY

These single-sensor gateways are designed to upgrade your vessel sensors to NMEA 2000®. Available in 4 different variants: resistive, voltage, LIN and J1939, those can be easily configured through either the embedded NFC interface or NMEA 2000® by means of our Configuration Tool. The ISO 8846:1990 compliance completes the devices by allowing their installation into compartments.
Optional: Wiring Harness A2C1756300001

TECHNICAL DATA

Operating voltage	6 – 16.5 V
Protection class	IP X9/K
Power consumption	12 V / 24 V
Operating Voltage	≤ 15 mA (normal mode) ≤ 120 µA (sleep mode)
Output signal	NMEA 2000®
Operating temperature	-40° C to 115° C
Flammability	UL94 compliant
Compliance	CE, Reach, RoHS
Housing Material	PC-FR

DESIGN

veratron

NMEA 2000®-SIDE WIRING
DeviceNet M12 connector 5 pins, 12 V power supply from the network!

LINKUP HOUSING
Contains the device electronics Notification LED, Wireless interface

SENSOR-SIDE WIRING
Different depending on the sensor to interface

1 NMEA Connector
2 NFC Antenna
3 Sensor Connector

»

**LinkUp reduces
wiring, is fast, powerful
and costeffective**

ART. NR. B00042201

RESISTIVE

The **RESISTIVE LINKUP** gateway is designed to interfaceand convert resistive sensors measurements – such as Level, Temperature, or Pressure sensors – to the NMEA 2000® digital era.
Optimized for a 0 – 400 ohm range, it can be configured with predefined sensor curves as well as with a customized characteristic to ensure compatibility with most of the sensors in the field.

FACTS AND BENEFITS

▼ Customizable sensor curves
▼ Approved for engine compartments
▼ Alarms setup + transmission on NMEA 2000®
▼ Plug-and-play installation with Veratron Dip-pipe level sensors

NMEA PGNS

Rudder	127245
Fluid Level	127505
Engine Parameters, Rapid Update	127488
Engine Parameters, Dynamic	127489
Transmission Parameters, Dynamic	127493
Trim Tab Status	130576

SUPPORTED CONFIGURATIONS

Fuel Level	Coolant Temperature
Fresh Water Level	Boost Pressure
Waste Water Level	Oil Pressure
Trim Position	Oil Temperature
Trim Tabs	Gear Oil Pressure
Rudder Angle	Gear Oil Temperature

ART. NR. B00042301

PYROMETER

Specific **LINKUP** variant designed to interfacethe Veratron Pyrometer thermocouple (N03-320-264)

GENERAL BENEFITS

▼ High precision probe for exhaust gas temperature (EGT) measurement
▼ Electrically compensated wires
▼ Extremely high temperature resistance
▼ Early warning of situations that are potentially dangerous for the engine!
▼ Helps preventing severe damages to the engine
▼ Can also be used as a guide for optimizing fuel economy

THE KIT INCLUDES

1 / Link-Up Pyrometer	B000423
2 / 6 m extension cable with high temperature resistance included	B000632
3 / Pyrometer thermocouple	N03-320-264

NMEA PGNS

Exhaust Temperature	130316

B00042501 (12 V) / B00042501 (12 V II) / B00070401 (24 V)

INTELLIGENT BATTERY SENSOR (IBS)

The **INTELLIGENT BATTERY MONITORING SYSTEM** informs you about the current energy status, allowing you to plan your energy supply making it the key element of the vessel`s energy management. In order to carefully preserve the energy of the boat battery, it is necessary to know its State of Charge, the ageing status (Stae of Health) and any changes to the battery, as weak batteries are the main cause of trouble in the boat.

FACTS AND BENEFITS

- ▼ **12 V and 24 V** Intelligent Battery Sensors (IBS)
- ▼ Determines the current status of your battery to support energy management planning
- ▼ Helps to preserve battery life by reporting its State of Health
- ▼ Delivers **real-time measurements** preventing over charging and over heating which can shorten battery life

	12 V B00042501	12 V II B00042502	24 V B00070401
Operating voltage	6 – 16.5 V	6 – 18 V	7.5 – 32 V
Permanent load current	± 155 A	± 200 A	± 200 A
Max current	± 1500 A	± 1500 A	± 2000 A
Threaded GND bolt (Battery pole adapted included)	M8	M6	M8
Max battery capacity	249 Ah	500 Ah	255 Ah

DESIGN AND FUNCTION

The **IBS** is attached directly to the negative pole of the battery via its pole terminal.Alongside the terminal, the mechanical portion of the battery sensor consists of the shunt and grounding bolt.

DELIVERED DATA

Battery Voltage

Battery Current

Battery Temperature

State of Charge (SOC): Current charge status of the battery, defined in percentage

State of Health (SOH): Ageing status of the battery, loss of capacity over time

Autonomy: Estimated battery duration based on the instantaneous current consumption of the system

NMEA PGNS

DC Detailed Status	127506
Battery Status	127508
Battery Configuration Status	127513

12 VOLT SYSTEMS

- ▼ Two sensors available for 12 V batteries
- ▼ IBS is connected to the battery negative pole
- ▼ Fused connection to the pos. pole which powers the LinkUp

to NMEA 2000

BATTERY

to ELECTRICAL SYSTEM

24 VOLT SYSTEMS

- ▼ Series of two 12 V batteries
- ▼ IBS is connected to the battery neg. pole of one 12 V battery
- ▼ Fused connections to the 12 V and 24 V positive poles

to NMEA 2000

12 V BATTERY

12 V BATTERY

to ELECTRICAL SYSTEM 24 V

ART. NR. B00070501

2-IN-1 (PRESSURE + OIL TEMPERATURE)

This Sensor measures simultaneously the engine oils temperature and pressure whileproviding the data to the **LINKUP**, which translates it to the NMEA 2000® standard.

FACTS AND BENEFITS

- ▼ Interface to the new electronic 2-in-1 sensor
- ▼ Oil Temperature and Pressure in a single sensor
- ▼ Rugged and reliable design derived from the automotive field
- ▼ ASIC-controlled sensor
- ▼ PWM output to transmit both pressure and temperature

NMEA PGNS

Engine Parameters, Dynamic	127489
Transmission Parameters, Dynamic	127493

TECHNICAL DATA

M12 mounting thread
IP 69/K protection class
5V power feed provided by the LinkUp
Temperature accuracy ±1°K in the 135°C – 160°C range
Pressure accuracy ±0.2 bar (range 0.5 –3 bar), ± 0.1 bar below and ± 0.3 bar above
Temperature range: –40°C + 160°C
Pressure range: 0.5 to 10.5 bar
1 m cable length

ART. NR. B00042401

J1939 GATEWAY

The **LINKUP J1939** will bridge all your CAN engine data, transmitted on the CAN-J1939-Bus, to the NMEA2000 ® standard, making all the engine and diagnostic information available for any NMEA 2000-capable display.

FACTS AND BENEFITS

- ▼ J1939 to NMEA 2000® gateway to bring engine data to your boat network
- ▼ Delivers engine diagnostic to your MFD or smartphone in conjunction with a Veratron GO device
- ▼ Galvanic isolation between J1939 and NMEA 2000® networks
- ▼ Optional Y-shaped adapter cables to interface specific engines

SUPPORTED DATA

Engine Speed	Transm. Oil Press
Engine Hours	Transm. Oil Temp
Engine Load	Exhaust Temp
Engine Oil Temp	Fuel Level
Engine Oil Press	Fuel Press
Coolant Temp	Fuel Rate
Coolant Press	Inst Fuel Economy
Boost Press	Alternator Current
Engine Rated Speed	Alternator Potential
VIN	Battery Potential
SW ID	Transmission Gear
Percent Torque	

SUPPORTED ALARMS

Low Fuel Press	Low Battery Voltage
Water In Fuel	Engine Overspeed
Low Engine Oil Level	High Gear Oil Temp
Low Engine Oil Press	Low Gear Oil Press
High Boost Press	Low Oil Level
High Coolant Temp	High Oil Temp
Low Coolant Level	Lamps' Status

ART. NR. B000592

NEW VARIANT 0 - 5 VOLT

The voltage-type LinkUp gateway provides an easy method to convert vessel and engine information to NMEA 2000®.

FACTS AND BENEFITS

- ▼ 5 V output for sensor feed
- ▼ Designed for electronic sensors
- ▼ Customizable sensor curves
- ▼ Approved for engine compartments
- ▼ Alarms setup + transmission on NMEA 2000®
- ▼ Plug-and-play installation with Veratron Dip-pipe level sensors

SUPPORTED DATA

Fuel Level	Boost Pressure
Freshwater Level	Oil Temperature
Wastewater Level	Oil Pressure
Trim Level	Gear Oil Pressure
Rudder Angle	Gear Oil Temp
Coolant Temp	Trim Tabs

SUPPORTED ALARMS

Coolant Temperature
Boost Pressure
Oil Temperature
Oil Pressure
Gear Oil Pressure
Gear Oil Temperature
Low Coolant Level

SENSORS – HIGH PRECISION FOR YOUR SAFETY

Sensors for electronically controlled safety functions are the eyes, ears and antenna of a modern-day high-tech vehicle. Nothing escapes them – neither the smallest temperature deviation inside cooling systems, nor the monitoring of engine and gear oil temperature. Intelligent safety systems are inconceivable without them. Over the past 60 years, we have continuously refined and perfected our sensors that now have reached an utmost degree of precision.

Analog Wind Sensor

ANALOG WIND SENSOR

The legacy wind vane turns in the direction of the wind and steers the wind direction gauge. The wind cups record the relative wind speed which in turn is displayed on the wind speed gauge. Also compatible with VDO Marine "Standard" & "Logic" series.

AFTERMARKET PACKAGE

18 knots Sumlog™ Transducer, additional 50 knots Paddle Wheels, Valve, Plug, 2x Rubber Seal, Installation Instructions, Safety Instructions.

VOLTAGE	ARTICLE NR
12-24 V	A2C59501983

Rudder Angle Sensor

RUDDER ANGLE SENSORS

SINGLE STATION

VOLTAGE	RESISTANCE	ARTICLE NR
12-24 V	10–180 Ω	A2C1102950001

DUAL STATION (FLY BRIDGE)

VOLTAGE	RESISTANCE	ARTICLE NR
12-24 V	5–90 Ω	A2C1102960001

DISCOVER MORE

FUEL LEVEL SENSORS

AFTERMARKET PACKAGE

Fuel Level Sensor (resistive) with adjustable lever, sealing kit N05-801-432

SINGLE STATION

VOLT.	SIGN. RANGE empty / full	LENGTH*	ARTICLE NR
12-24 V	3 – 180 Ω	150 - 600 mm	226-801-015-001G
12-24 V	240 – 33.5 Ω	150 - 600 mm	A2C1364580001

DUAL STATION (FLY BRIDGE)

VOLT.	SIGN. RANGE empty / full	LENGTH*	ARTICLE NR
12-24 V	2 – 90 Ω	150 - 600 mm	N02-240-106

AMMETER SHUNT

A shunt is a resistor that causes a small voltage drop. This voltage drop in mVolt is proportional with the current in ampere that goes through the resistor. This voltage is measured by the Ammeter. The advantage of the shunt is that thick wires are no longer needed at a high current (>10 A).

To measure the total flow you only need two thin wires from the measuring instrument to the shunt in the earth connection of the main system.

VOLT.	RANGE	INPUT	ART. NR
12-24 V	-60 / +60 A	60 mV	A2C59514043
12-24 V	−150 / +150 A	60 mV	A2C59514047

≫

Intelligent safety systems are inconcievable without them

DIP-PIPE LEVEL SENSOR / ARTICEL NUMBERS

LENGTH	SIGNAL RANGE		
	90 – 4 Ω	0 – 180 Ω	240 – 33 Ω
150 mm	A2C1749300001	A2C1720030001	A2C1746020001
160 mm	A2C1749310001	A2C1742410001	A2C1746030001
170 mm	A2C1749370001	A2C1742980001	A2C1746040001
180 mm	A2C1749950001	A2C1744170001	A2C1746060001
190 mm	A2C1750030001	A2C1744180001	A2C1746100001
200 mm	A2C1750040001	A2C1744190001	A2C1746120001
210 mm	A2C1750100001	A2C1744200001	A2C1746130001
220 mm	A2C1750120001	A2C1744210001	A2C1746140001
230 mm	A2C1750130001	A2C1744220001	A2C1746150001
240 mm	A2C1750170001	A2C1744230001	A2C1746170001
250 mm	A2C1750190001	A2C1744240001	A2C1746190001
260 mm	A2C1750200001	A2C1744250001	A2C1746220001
270 mm	A2C1750210001	A2C1744260001	A2C1746300001
280 mm	A2C1750220001	A2C1744270001	A2C1746390001
290 mm	A2C1750230001	A2C1744280001	A2C1746420001
300 mm	A2C1750240001	A2C1744290001	A2C1746450001
310 mm	A2C1750250001	A2C1744300001	A2C1746990001
320 mm	A2C1750260001	A2C1744310001	A2C1747000001
330 mm	A2C1750270001	A2C1744320001	A2C1747020001
340 mm	A2C1750280001	A2C1744350001	A2C1747030001
350 mm	A2C1750290001	A2C1744360001	A2C1747050001
360 mm	A2C1750300001	A2C1744370001	A2C1747060001
370 mm	A2C1750310001	A2C1744380001	A2C1747080001
380 mm	A2C1750320001	A2C1744390001	A2C1747090001
390 mm	A2C1750330001	A2C1744400001	A2C1747130001
400 mm	A2C1750340001	A2C1744410001	A2C1747140001
410 mm	A2C1750350001	A2C1744420001	A2C1747150001
420 mm	A2C1750360001	A2C1744430001	A2C1747160001
430 mm	A2C1750380001	A2C1744440001	A2C1747170001
440 mm	A2C1750390001	A2C1744450001	A2C1747190001
450 mm	A2C1750420001	A2C1744460001	A2C1747200001
460 mm	A2C1750440001	A2C1744470001	A2C1747210001
470 mm	A2C1750460001	A2C1744480001	A2C1747220001
480 mm	A2C1750470001	A2C1745780001	A2C1747230001
490 mm	A2C1750490001	A2C1745790001	A2C1747240001
500 mm	A2C1750500001	A2C1745800001	A2C1747250001
550 mm	A2C1750530001	A2C1745810001	A2C1747260001
600 mm	A2C1750570001	A2C1720100001	A2C1747270001
650 mm	A2C1750620001	A2C1745820001	A2C1747280001
700 mm	A2C1750650001	A2C1745830001	A2C1747290001
750 mm	A2C1750730001	A2C1745840001	A2C1747300001
800 mm	A2C1750740001	A2C1745880001	A2C1747340001
850 mm	A2C1750750001	A2C1745890001	A2C1747350001
900 mm	A2C1750760001	A2C1745900001	A2C1747360001
950 mm	A2C1750770001	A2C1745910001	A2C1747370001
1000 mm	A2C1750790001	A2C1745920001	A2C1747380001
1050 mm	A2C1750810001	A2C1745930001	A2C1747390001
1100 mm	A2C1750840001	A2C1745940001	A2C1747410001
1150 mm	A2C1750850001	A2C1745950001	A2C1747420001
1200 mm	A2C1750860001	A2C1745960001	A2C1747430001
1400 mm	B00068601	–	–

DIP-PIPE LEVEL SENSORS

Sensors for electronically controlled safety functions are the eyes, ears and antenna of a modern-day high-tech vehicle. Nothing escapes them – neither the smallest temperature deviation inside cooling systems, nor the monitoring of engine and gear oil temperature. Intelligent safety systems are inconceivable without them. Over the past 60 years, we have continuously refined and perfected our sensors that now have reached an utmost degree of precision.

SPECIFICATIONS:

▾ TE Superseal Connector IP67
▾ Compensation chamber
▾ Flange: PA66 GF30
▾ Wiring harness with length of 200 mm
▾ 3 Signal ranges: 90 – 4 Ω, 0 – 180 Ω, 240 – 33 Ω
▾ Length: 150 mm – 1200 mm
▾ Mounting diameter: 54 mm
▾ IP67 protection rating

AFTERMARKET PACKAGE

Dip-Pipe Level Sensor, Safety and Installation Instructions, Installation Kit A2C17593300

ACCESSORIES

6 m Wiring Harness	A2C1756300001

FLANGE ADAPTER KIT

The Flange Adapter Kit can be adapted to our brand-new Fuel Level Sensor replacing the old 80 mm sensor. A cross reference list (provided by our sales offices) will allow you to find the correct sensor replacing the defective one. Our Flange can be adapted to any of our liquid level sensors.

This is a complete solution in case of defective Fuel Level Sensors.

ART.NR. B00001201

NMEA 2000® Liquid Level
Sensor (capacitive)

NMEA 2000® LIQUID LEVEL SENSOR (CAPACITIVE)

Our NMEA 2000® Liquid Level Sensor, with adjustable
dip, provides you with fresh and waste water level.

VOLTAGE	LENGTH*	ARTICLE NR
12-24 V	200 – 600 mm	B00041201
12-24 V	600 – 1200 mm	B00041401
12-24 V	1200 – 1500 mm	B00041501

Fresh Water Capacitive Sensor

FRESH WATER LEVEL SENSORS

AFTERMARKET PACKAGE

Fresh Water Level Sensor (capacitive) with adjustable dip,
sealing kit N05-001-370

VOLT.	SIGN. RANGE	LENGTH*	ARTICLE NR
12-24 V	4 – 20 mA	80 – 600 mm	N02-240-402
12-24 V	4 – 20 mA	600 – 1200 mm	N02-240-404
12-24 V	4 – 20 mA	1200 – 1500 mm	N02-240-406

Fresh Water Capacitive Sensor

AFTERMARKET PACKAGE

Fresh Water Level Sensor (capacitive) with adjustable dip,
sealing kit N05-001-370

VOLT.	SIGN. RANGE	LENGTH*	ARTICLE NR
12-24 V	4 – 20 mA	80 – 600 mm	N02-240-802

Waste Water Capacitive Sensor

WASTE WATER LEVEL SENSORS

AFTERMARKET PACKAGE

Waste Water Level Sensor (capactive) with adjustable dip,
sealing kit N05-016-930

VOLT.	SIGN. RANGE	LENGTH*	ARTICLE NR
12-24 V	4 – 20 mA	200 – 600 mm	N02-240-902
12-24 V	4 – 20 mA	600 – 1200 mm	N02-240-904
12-24 V	4 – 20 mA	1200 – 1500 mm	N02-240-906

COMBINED OIL PRESSURE / TEMPERATURE SENSOR

RANGE	VOLT.	SIGNAL RANGE	THREAD	ARTICLE NR
-40°/+160° C 0.5 - 10.5 bar	5 V	PWM	M12	B00084301

ENGINE OIL PRESSURE SENSORS 5 BAR / 80 PSI

SINGLE-POLE, COMMON GROUND

Knurled nut M4

RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
5 bar / 80 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-029-001C
5 bar / 80 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-029-004C

DUAL-POLE, INSULATED RETURN

(2x) Knurled nut

RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
5 bar / 80 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-032-001C
5 bar / 80 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-032-002C
5 bar / 80 psi	6-24 V	20.8 mm	12 mm	M18 x 1.5	360-081-032-013C

* without hexagonal nut

WITH WARNING CONTACT, COMMON GROUND

(2x) Knurled nut

WARNING RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
0.7 ± 0.15 bar / 10.15 ± 2.2 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-030-004C
1.4 ± 0.3 bar / 20.3 ± 4.4 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-030-010C

WITH WARNING CONTACT, 3 CONNECTIONS

WARNING RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
0.8 ± 0.15 bar / 11.6 ± 2.2 psii	6-24 V	19.5 mm	11 mm	1/8" – 27 Dryseal NPTF	360-081-039-002C

Images: G = Sensor; M = Ground; W = Warning contact

ENGINE OIL PRESSURE SENSORS 10 BAR / 150 PSI

SINGLE-POLE, COMMON GROUND

Knurled nut M4

6.3 x 0.8 mm (50°) M4

RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
10 bar / 150 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-029-012C
10 bar / 150 psi	6-24 V	20.5 mm	12 mm	M12 x 1.5	360-081-029-013C
10 bar / 150 psi	6-24 V	20.5 mm	12 mm	M14 x 1.5	360-081-029-033C
10 bar / 150 psi	6-24 V	19.5 mm	11 mm	R 1/8 DIN 2999	360-081-029-062C

DUAL-POLE, INSULATED RETURN

(2x) Knurled nut

RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
10 bar / 150 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-032-003C
10 bar / 150 psi	6-24 V	20.5 mm	12 mm	M14 x 1.5	360-081-032-006C
10 bar / 150 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-032-014C

WITH WARNING CONTACT, COMMON GROUND

(2x) Knurled nut M4

(2x) 6.3 x 0.8 mm (50°)

WARNING RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
0.5 ± 0.15 bar / 7.3 ± 2.2 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-030-009C
0.8 ± 0.3 bar / 11.6 ± 4.4 psi	6-24 V	19.5 mm	12 mm	1/8" – 27 NPTF	360-081-030-015C
0.9 ± 0.15 bar / 13.1 ± 2.2 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-030-017C
2.0 ± 0.3 bar / 29 ± 4.4 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-030-041C
0.5 +0.2 −0.1 bar / 7.3 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-030-052C
0.75 ± 0.15 bar / 10.9 ± 2.2 psi	6-24 V	19.5 mm	11 mm	M10 x 1 tapered, short	360-081-030-039C

WITH WARNING CONTACT, 3 CONNECTIONS

WARNING RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
0.8 ± 0.15 bar / 11.6 ± 2.2 psii	6-24 V	19.5 mm	11 mm	1/8" – 27 Dryseal NPTF	360-081-039-002C

Images: G = Sensor; M = Ground; W = Warning contact

TRANSMISSION OIL PRESSURE SENSORS 25 BAR / 350 PSI

DUAL-POLE, INSULATED RETURN

	RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
(2x) Knurled nut	25 bar / 350 psi	6-24 V	20.5 mm	12 mm	M18 x 1.5	360-081-038-005C
	25 bar / 350 psi	6-24 V	20.5 mm	12 mm	M14 x 1.5	360-081-038-001C
(2x) Hexagonal nut	25 bar / 350 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-038-003C

TURBO PRESSURE SENSORS

DUAL-POLE, INSULATED RETURN

	RANGE	VOLT.	L1	L2	THREAD	ARTICLE NR
	2 bar / 30 psi	6-24 V	20.5 mm	12 mm	M12 x 1.5	360-081-032-011C
(2x) 6.3 x 0.8 mm (50°)	2 bar / 30 psi	6-24 V	19.5 mm	11 mm	1/8" – 27 NPTF	360-081-032-025C

COOLANT TEMPERATURE SENSORS

SINGLE-POLE, COMMON GROUND

	RANGE	VOLT.	LENGTH	Ø	THREAD	ARTICLE NR
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	M14 x 1.5	323-801-001-006N
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	3/8" – 18 NPTF	323-801-001-007N
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	5/8" – 18 UNF-3A	323-801-001-008N
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	M16 x 1.5	323-801-001-040N
Knurled nut M4	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	M16 x 1.5	323-801-001-029N
	40 – 120 °C / 105 – 250 °F	6-24 V	22 mm	8.5 mm	1/8" – 27 NPTF	323-801-005-001D
	40 – 120 °C / 105 – 250 °F	6-24 V	10.5 mm	8.4 mm	M10 x 1 tapered, short	323-801-017-001N

DUAL-POLE, INSULATED RETURN

	RANGE	VOLT.	LENGTH	Ø	THREAD	ARTICLE NR
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	11 mm	1/2" – 14 NPTF	323-805-001-004N
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	11 mm	3/8" – 18 Dryseal NPTF	323-805-001-005N
	40 – 120 °C / 105 – 250 °F	6-24 V	29 mm	9 mm	M18 x 1.5	323-805-001-015N

ENGINE OIL TEMPERATURE SENSORS

SINGLE-POLE, COMMON GROUND

	RANGE	VOLT.	LENGTH	Ø	THREAD	ARTICLE NR
6.3 x 0.8 mm	50–150 °C / 120–300 °F	6-24 V	29 mm	9 mm	M14 x 1.5	323-801-004-002N
	50–150 °C / 120–300 °F	6-24 V	22 mm	6,9 mm	M10 x 1.5	323-801-010-001D

DUAL-POLE, INSULATED RETURN

	RANGE	VOLT.	LENGTH	Ø	THREAD	ARTICLE NR
	50–150 °C / 120–300 °F	6-24 V	29 mm	11 mm	M14 x 1.5	323-805-003-001N
	50–150 °C / 120–300 °F	6-24 V	29 mm	11 mm	1/4" – 18 NPTF	323-805-003-002N

PYROMETER SENSOR

THERMOCOUPLE ELEMENT

RANGE	TERMINALS	ARTICLE NR
100–900 °C 250–1650 °F	Red = Negative Yellow = Positive	N03-320-264

PYROMETER NMEA 2000® KIT

ARTICLE NR: B00042301 (Link Up gateway included)

CONNECTING CABLE

RANGE	TERMINALS	ARTICLE NR
6 m	White = Negative Blue = Positive	B00063201

THREADED BUSHING FOR WELDING TO MANIFOLD

ARTICLE NR: N03-320-266

INTELLIGENT BATTERY SENSOR (IBS)

The Intelligent Battery Sensor (IBS) is the key element of vehicle energy management. The IBS reliably and accurately measures the battery parameters: voltage, current and temperature.

NOMINAL VOLTAGE	MAX. CAPACITY	ARTICLE NR
12 V	250 Ah	B00043901
12 V	500 Ah	B00084201
24 V	250 Ah	B00072101

Intelligent Battery Sensor

KITS – SMALL BOX, BIG CAPABILITY.

VL FLEX IBM KIT

The VL Flex IBM Kit includes:
▼ VL Flex 52 instrument
▼ Intelligent Battery Sensor (IBS)
  (incl. Battery pole adapter)
▼ 6-meter long wiring harness

Delivered Data:

▼ Voltage   ▼ State of charge
▼ Current   ▼ Battery health
▼ Battery temp.   ▼ Autonomy

VOLTAGE	ARTICLE NR
12 V	B00084701
24 V	B00084801

BENEFITS

▼ Ready for connecting
  to Veratron dip-pipe liquid
  level sensors
▼ Continuous monitoring
  of battery status
▼ Support of battery maintenance
▼ Easy configuration
  with the mobile app

»
**Everything you need, to know your
battery health and status at any time!**

VMH 35 OUTBOARD ENGINE KITS

VMH 35 Outboard Engine Kits include:
▼ VMH 35 Display
▼ IBS 12V 250 A/h with battery adapter
▼ Wire harness 6m with connectors
  for level sensor and IBS
▼ Bullets terminals for tachometer trim
  and powersupply

VARIANTS	ARTICLE NR
VMH 35 Kit	B00085502
VMH 35 Kit 0-5 V	B00135301

»

Upgrade your boat to the digital world!

SMART KIT

The **SMART KIT** is composed of an **OCEANLINK™**
4.3" or 7" TFT Display, our new GPS module **VERATRON GO**
and all the necessary cables for installation and conection.
All your data are displayed on the TFT Display.

VARIANTS	ARTICLE NR
Smart Kit 4.3"	A2C1352150004
Smart Kit 7"	A2C1865330002

SMART KIT 4.3"

Veratron GO

drop cable   drop cable

NMEA 2000 backbone

Power supply

SMART KIT 7"

Veratron GO

drop cable   drop cable

NMEA 2000 backbone

Power supply

NAVIGATION KIT

Complex boats need a smart solution. And we have it.
OceanLink™ display is the only product on the market
able to interpret CAN, NMEA 2000® and analog signals
without any additional external device.

The Navigation Kit is the solution!
Our Navigation Kits will become an essential crew
member which ensures top performance in open seas,
even in the most extreme situations.

ALL IN ONE BOX

All you need is in one box including wiring harness and
terminators. All products are REACH and RoHS compliant
and NMEA 2000® certified.

ARTICLE NR

A2C1352150002

The Sailing Kit includes:
▾ Wind Sensor NMEA 2000®
▾ NMEA 2000® Triducer Airmar Sensor
▾ OceanLink™ 4.3" TFT Display
▾ NMEA 2000® Cable 30 m
▾ NMEA 2000® Cable 6 m
▾ NMEA 2000® Terminator Female
▾ NMEA 2000® Inline Terminator
▾ 2x NMEA 2000® T-Splitter

NMEA 2000® Wind Sensor

OceanLink™ 4.3" TFT Display

NMEA 2000® Triducer Airmar Sensor

SAILING KIT

Have your boat ready for the sailing season with the Sailing Kit, the fundamental setting for your sailing boat.

The Sailing Kit brings all the necessary tools for your sailing journeys. All you need is in one box including wiring harness and terminators. All products are REACH, RoHS and NMEA 2000® compliant. The Kit provides the elementary yet essential set-up to make your sailing trips safe while having access to all necessary information.

The Kits products are a must have on a sailing boat and offer a high functionality and readability, thanks to the analog displays.

The Sailing Kit includes:
▼ 1 OceanLink™ GPS Speedometer
▼ 1 wind sensor
▼ OceanLink™ Navigation gauge wind angle
▼ OceanLink™ Navigation gauge wind speed

The NMEA 2000® certified GPS Speedometer has an embedded GPS receiver for speed and heading indications, avoiding the need of additional sensors on board. It also Serves for calculation of true wind data in combination with the navigation wind gauges featuring an infrared push button for a fast switch from apparent to true wind. The Sailing Kit is low-power consuming and lead-free for our planet's well-being.

ARTICLE NR
A2C3935310001

»

Easy to install, the Sailing Kit provides necessary data to assist you during your journey.

ACCESSORIES

ACQUALINK™ ACCESSORIES

ITEM SPECIFICS	ARTICLE NR	IMAGE
Bezel TFT 4.3", black	A2C59501967	
Bezel TFT 4.3", white	A2C3983920001	
Bezel TFT 7", black	A2C59501968	
Bezel TFT 7", white	A2C3995200001	
Bezel NavControl, black	A2C1156050001	
Bezel NavControl, white	A2C3997600001	
Spinlock nut, 52 mm	A2C5205947101	
Spinlock nut, 110 mm	A2C5323888101	
Silicone cover for 7" TFT Display	A2C59501973	
Silicone cover for NavControl	A2C59501974	

OCEANLINK™ ACCESSORIES

ITEM SPECIFICS	ARTICLE NR	IMAGE
Spinlock nut, 52 mm	A2C5205947101	
Spinlock nut, 85 mm	A2C1376090001	
Round Bezel 52 mm, black	A2C1141440001	
Round Bezel 52 mm, chrome	A2C5336487001	
Round Bezel 52 mm, white	A2C1352110001	
Round Bezel 85 mm, black	A2C1111380001	
Round Bezel 85 mm, chrome	A2C1141580001	
Round Bezel 85 mm, white	A2C1352140001	
Bezel TFT 4.3", black	A2C1083230001	
Bezel TFT 4.3", white	A2C1152980001	
Bezel TFT 7", black	A2C1697530001	
Bezel TFT 7", white	A2C1697540001	
Silicone cover for 4.3" TFT Display	A2C59501972	
Silicone cover for 7" TFT Display	A2C59501973	

CAN BUS, ACQUALINK™ AND OCEANLINK™ INSTALLATION ACCESSORIES

ITEM SPECIFICS		ARTICLE NR	IMAGE
VDO Bus to NMEA 2000® Adapter		A2C9624490001	
VDO Bus Cable	0.3 m	A2C9624460001	
	2 m	A2C3880570001	
	5 m	A2C9624500001	
	10 m	A2C9624510001	
VDO Bus Gender Changer		A2C3880550001	
VDO Bus Termination Resistor		A2C9979390001	
NMEA 2000® Power Cable		A2C3931290001	
NMEA 2000® T Splitter		A2C3931270002	
NMEA 2000® Cable	0.5 m	A2C9624370001	
	2 m	A2C9624380001	
	6 m	A2C9624400001	
	10 m	A2C9624420001	
	30 m*	A2C59501950	
NMEA 2000® Terminator Female		A2C3931060001	
NMEA 2000® Terminator Male		A2C3931100001	
NMEA 2000® Inline Terminator		A2C3931250001	
NMEA 2000® Infield Installation Connector Female		A2C3930850001	
NMEA 2000® Infield Installation Connector Male		A2C3931050001	
Infield Installation Connector VDO Bus / Wind Sensor Cable		A2C3880490001	
J1939 Termination Resistor, Inline J1939		A2C9979420001	
Video cable 0.3 m for 4.3" and 7" AcquaLink™		A2C9979110001	
Video cable 0.3 m for 7" OceanLink™		A2C1845710001	
32 pin power cable for dual engine		A2C1766930001	
32 pin power cable for single engine		A2C1821960001	
Power cable NavBox		A2C9875610001	
26 pin NavBox analog harness		A2C9875480001	
MediaBox cable harness		A2C1313150001	

* one end without connector for easier routing

CAN BUS, ACQUALINK™ AND OCEANLINK™ INSTALLATION ACCESSORIES

ITEM SPECIFICS	ARTICLE NR	IMAGE
Power cable and data cable for OceanLink™ Face-lift Master Gauges 85 mm	A2C1433330001	
EasyLink connecting cable	A2C59500139	
Power cable and data cable for OceanLink™ Master 4.3" and TFT 7" Engine 1	A2C1507870001	
Power cable and data cable for OceanLink™ Master TFT 7" Engine 2	A2C1992110001	
Adapter Cable IBS 12 V	B00090601	
Adapter Cable IBS 24 V	B00090701	
Adapter Cable LinkUp - Volvo Penta[1]	B00102701	
Adapter Cable LinkUp - Yanmar[2]	B00102801	
Battery Pole Adapter for IBS 12/24 V, 250 Ah	B00068201	
Battery Pole Adapter for IBS 12 V, 550 Ah	B00068401	

9 different styling rings available

VIEWLINE BEZELS

PROFILE	COLOR	ARTICLE NR
Ø 52 MM		
Flat	Black	A2C5318604001
	White	A2C5318602201
	Chrome	A2C5318602301
Triangular	Black	A2C5318602401
	White	A2C5318602501
	Chrome	A2C5318602601
Round	Black	A2C5318602701
	White	A2C5318602801
	Chrome	A2C5318602901
Ø 85 MM		
Flat	Black	A2C5319291101
	White	A2C5319291201
	Chrome	A2C5319291001
Triangular	Black	A2C5319291701
	White	A2C5319292001
	Chrome	A2C5319291801
Round	Black	A2C5319291301
	White	A2C5319291601
	Chrome	A2C5319291401
Ø 110 MM		
Flat	Black	A2C5321074501
	White	A2C5321074601
	Chrome	A2C5321074701
Triangular	Black	A2C5321076301
	White	A2C5321076401
	Chrome	A2C5321076501
Round	Black	A2C5321074901
	White	A2C5321076001
	Chrome	A2C5321076101

VIEWLINE ACCESSORIES

ITEM SPECIFICS	ARTICLE NR	IMAGE
Spinlock nut 52 mm	A2C5205947101	
Spinlock nut 80 / 85 mm	A2C5321223801	
Spinlock nut 110 mm	A2C5323888101	
Pushbutton for LCD 13.6 mm	A2C1028400001	
Connector set 8 pin	A2C59510850	
Connector set 14 pin	A2C59510851	
Adapter cable for 52 mm 5x AMP taps, 6.3 mm 2x AMP taps, 2.8 mm	A2C59510852	
Adapter cable 8-pole for temperature, pressure, fuel level, trim, pyrometer, outside temperature, fresh water, blackwater, tachometer, speedometer	A2C59512947	
Ammeter ViewLine Harness	A2C59512679	
Adapter cable 14 pole for tachometer with LCD	A2C59512950	
GPS Speed cable	A2C9582260001	
Bracket assembly mounting set	A2C59510854	
Blindplug for Ø 52 mm	A2C5312164501	
ViewLine adapter cable to WWG	B00013402	
Cockpit bracket with integrated pushbutton	B00100901	
Cockpit bracket without pushbutton	B00100801	

SENSOR ACCESSORIES

ITEM SPECIFICS		ARTICLE NR	IMAGE
Mast Cable (Analog Wind Sensor)	10 m	A2C9979290001	
	13 m	A2C9979340001	
Dip-Pipe Sensor 6 m Wiring Harness		A2C1756300001	

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