

2024 / PRODUCT CATALOGUE

# PREMIUM QUALITY FOR ALL BOATS

Outdoor Instrumentation engineered in Switzerland

veratron.com

## **>>>**

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





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 $\frac{\textbf{Premium outdoor instrumentation}}{\textbf{engineered in Switzerland.}}$ 

## **LEADING SOLUTIONS** FOR DEMANDING INSTRUMENTATION

The first choice in the marine business.

Veratron was established to serve its customers with high quality, reliable and durable 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.

**Sailing Boats** 

**Power Boats** 

Inflatables

Jet-Ski

**MORE ABOUT VERATRON** 



**WE ARE** CERTIFIED



ISO

ISO 14001

ISC 17025





## OUR MISSION, VALUES AND VISION

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 customers, 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.







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 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.

PATRICK DIXON, AUTHOR AND FUTURIST

## OUR KNOW HOW, TO SERVE YOU BEST.



#### **ENGINEERING SERVICES**

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**

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



#### **PRODUCTION SERVICES**

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



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

2023 Sustainability Project: Installation and start-up of PV system The best way to predict the future is to create it.

ABRAHAM LINCOLN

## NEW GENERATION, NEW HORIZONS - THE VMH SERIES

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.





















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











## All your vessel data on a stylish VMH display.



## VMH FLEX

#### Tiny device / endless possibilities

#### **KEY FEATURES**

- ▼ Up to 5 scrollable screens in single or dual layout
- ▼ Innovative laser touch-button reliable in every practical condition.
- ▼ CAN bus connectivity (NMEA 2000® or J1939)
- ▼ 2x analog inputs for direct sensor connections
- ▼ Embedded analog to NMEA 2000® converter
- ▼ LIN port for Intelligent Battery Sensor







Small but powerful, the **VMH FLEX** is the perfect compromise to display a large amount of boat data in a compact device. No matter if you are wearing gloves or if it is raining on your deck, the innovative laser touchbutton allows you to scroll up to 5 different screens. Every screen can be freely customized with your most important information, and the setup – including alarms – is easily done with your smartphone just with a »tap«.

Capable of reading from both sensors and CAN the **VMH FLEX** is further empowered by the LIN connectivity to get all the information from your battery thanks to the Intelligent Battery Sensor.

#### ARTICLE NR.

NMEA 2000®	B00186401
SAE J1939	B00127801







### **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











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 analog input directly, such as fuel, trim, and tachometer. A special input is dedicated to the Veratron IBS (Intelligent Battery Sensor). It can provide critical 12V battery monitoring information. All these data are distributed to NMEA 2000® thanks to its embedded certified gateway.

#### ARTICLE NR.

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



### **VMH 70**

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

#### **KEY FEATURES**

- ▼ 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
- ▼ 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











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

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



Wealth of boat data in stylish devices.

## Meet the VMH 35-D: The highly regarded VMH 35 now comes in a diesel version!



### **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





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-D** – 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







## **VMH 35-D**

## Diesel engine monitoring made easy

#### **KEY FEATURES**

- ▼ 12/24 V operating voltage
- ▼ SAE J1939 CAN port
- ▼ High-performance GPS embedded
- ▼ More than 30 data displayed
- ▼ 4x analog input for external sensors
- ▼ EasyLink output for up to 16 VMH 14 satellites
- ▼ Analog/CAN to NMEA 2000® gateway













The VMH 35-D is the perfect standalone solution for monitoring your diesel engine. With a configurable dial scale of 3000 or 4000 RPM, the VMH 35-D is a compact display capable of showing a wide amount of data from your engine, battery, tank, and GPS.

Specific information about your diesel engine is provided together with alarms, either received from the SAE J1939 bus or locally set through the embedded menu. Both 12V and 24V systems are supported, as well as EasyLink connectivity which allows your dashboard to be expanded with additional VMH 14 satellite displays to always keep your sensitive data under control. The embedded high-performance GPS receiver further enhances the display capabilities by adding speed, position and heading data

#### ARTICLE NR.

VMH 35-D GPS	B00171101
VMH 35-D no GPS	B00171201



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





















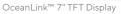


## OCEANLINK™ TFT DISPLAYS

Capable of displaying data of your engines, batteries, tanks and navigation, the **OCEANLINK™** displays can tame data from either sensors, NMEA 2000® and J1939 CAN. The optically-bonded IPS TFTs ensure perfect readability under direct sunlight, to display all the critical information you need to keep under control during your journey.

The real-time operating system delivers a lightning-fast startup upon power up, able to notify alarms and system information before it's too late. Reliability is the key, the OceanLink displays are designed to withstand high temperature environments and the harshest outdoor weather condition to never let you down, no matter what.







OL 43 TFT Display

#### OCEANLINK™ 7" TFT

- ▼ Touch screen function
- ▼ Optical bonded mineral glass lens
- ▼ Front and rear side protection rating IPX7
- ▼ 1x NMEA 2000® connector
- ▼ 2xJ1939
- ▼ 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





#### **OL 43 TFT**

- ▼ Optically bonded 4.3" IPS TFT display with mineral front lens glass
- ▼ Fresh redesigned customizable user interface
- ▼ IPX7 protection class / Exposed device
- ▼ Analog sensor inputs with NMEA gateway
- ▼ 2x analog inputs for direct sensor connections
- ▼ NMEA 2000® and SAE J1939 CAN ports
- ▼ Ethernet port HTML5 ready
- ▼ Optional USB-C port
- $oldsymbol{ iny}$  Reliable in high-temperature environments
- ▼ Lightning-fast startup upon power on

VOLT.	COLOR	RESOL.	ARTICLE NR
<b>43</b> 12-24 V	Black	480 x 272 (WQVGA)	B00126101
<b>7"</b> 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™ 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.

#### **SPECIFICATIONS**

- ▼ 1x NMEA 2000® input
- ▼ 1xJ1939
- **▼** 1x Frequency input
- **▼** 2x Analog inputs
- ▼ 1x Alarm output 500 mA
- ▼ Reverse polarity protection
- ▼ Anti-fog double layer plastic lens
- ▼ Protection rating IPX7
- ▼ Operating temperature range -20°C/+70°C



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 sixteen 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, Boost Pressure. COG and alarms.

#### **TACHOMETER**



The **OCEANLINK™** Tachometer automatically presents all the key boat data on a digital dot matrix display. Beside the two digital interfaces, supporting the NMEA 2000® and SAE J1939 data protocols, there is also one analog frequency input as well as two resistive ones. The innovative EasyLink data connection makes the installation of further 52mm Satellite Gauges easy and cost effective.

**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 /	12-24 V	Black	A2C1351970001
kmh/mph		White	A2C1352010001
0-35 knots /	12-24 V	Black	A2C1351980001
kmh/mph		White	A2C1352080001
0-70 knots /	12-24 V	Black	A2C1351990001
kmh/mph		White	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 connector
- ▼ 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



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	12-24 V	Black	A2C1065950001
120°C/250°F		White	A2C1065970001
Engine Oil Temperature	12-24 V	Black	A2C1065850001
150°C/300°F		White	A2C1065860001
Pyrometer	12-24 V	Black	A2C1349690001
900°C/1650°F		White	A2C1349710001



52 mm Boost Pressure, 2 bar/30 psi



52 mm Engine Oil Pressure, 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	12-24 V	Black	A2C1066140001
2 bar/30 psi		White	A2C1066150001
Engine Oil Temperature	12-24 V	Black	A2C1066000001
10 bar/150 psi		White	A2C1066010001
<b>Transmission Oil Pressure</b> 30 bar/440 psi	12-24 V	Black White	A2C1066040001 A2C1066050001



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	12-24 V	Black	A2C1065930001
Empty-Full		White	A2C1065940001
Fresh Water	12-24 V	Black	A2C1065910001
Empty-Full		White	A2C1065920001
Waste Water	12-24 V	Black	A2C1065890001
Empty-Full		White	A2C1065900001











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
<b>Current</b> -60/+60 A	12-24 V	Black White	A2C1349640001 A2C1349660001
-150/+150 A	12-24 V	Black White	A2C1349650001 A2C1349680001
<b>Voltage</b> 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	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.



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
- ▼ 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





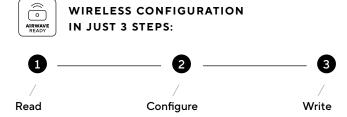
### **VL FLEX SERIES**

#### 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





#### **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			
Analog 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			



















Dual layout







**CONFIGURATOR APPS** 







## 244



#### **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® gateway included
- ▼ 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.



## **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

#### **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)

#### **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.

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, Bezel, Rubber Seal, Spinlock, Connection Cable, 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 Configuration Key and LCD
- ▼ 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**

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

## 15 10 RPM×100 20 5 25 —

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

## ENGINE REVOLUTION, ENGINE HOURS, VOLTAGE AND CLOCK

The **VIEWLINE** Tachometer with operating hours counter (digital display) 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)
- **▼** 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

<sup>\*</sup> 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
- ▼ Supports all our standard sensors
- ▼ 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 Tempe	erature			
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 Ten	nperature			
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 Tempe	erature			
+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
<b>Boost Pressure</b>				
2 bar/30 psi	8-32 V	Black White	10-184 Ω	A2C59514149 A2C59514225
<b>Engine Oil Pres</b>	sure			
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	Black White	10-184 Ω	A2C59514117 A2C59514202
Transmission O	il 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
Fuel Level				
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 (c	apacitive)			
O-1/1	8-32 V	Black White	4-20 mA	A2C59514676 A2C59514677
Fresh Water (re	esistive)			
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 Voltage 18-32 V



52 mm Rudder Angle -40°/+40°



52 mm Engine Trim

#### **BATTERY STATUS**

**VIEWLINE** Ammeter shows the current flow. The voltmeter displays the output voltage of generator and battery.

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 A2C59512331
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 Ang	le			
-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

#### 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

#### **ACOUSTIC BUZZER**

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

#### **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, such 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.



#### **TECHNICAL SPECIFICATIONS:**

- ▼ as ACQUALINK<sup>™</sup> 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	





AcquaLink™ 7" TFT Display

#### **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.

#### **SPECIFICATIONS:**

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

#### 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 Magni	fied	
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







Professional Rudder Angle Indicator

#### PROF. RUDDER ANGLE INDICATOR

The **OCEANLINK™** Professional Rudder Angle Indicator suits any commercial applications 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

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.

# **SPECIFICATIONS**

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



NavControl

**EX** 2000

#### 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**

to the digital age.

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 digital 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

# 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.

#### AFTERMARKET PACKAGE

NavBox, Power cable & fuse, 26 pin harness, VDO-bus terminating resistors (3 pc.), Mounting Screws, Safety, Installation and Operation Manual, Drilling Templates.



NavBox

# **SPECIFICATIONS**

- ▼ 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<sup>™</sup> Inputs
- ▼ AMP Super Seal power input
- ▼ 26 pin AUX input (analog signals, NMEA 0183)
- ▼ Operating temperature range -20°C/+70°C

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.



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 Analog	A2C59501983

# **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



# 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

#### AFTERMARKET PACKAGE

NavSensor, 2x brackets, Installation and Safety Instr.

VOLTAGE	ARTICLE NR
12-24 V	A2C59501981



# **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 GO 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 NMFA 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.



**ACCESSORIES** 

ARTICLE NR

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



DOWNLOAD THE NAVDASH APP







# **ELECTRONIC CONTROL UNITS AND GATEWAYS**

# **ENGINEBOX**

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.



- ▼ 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 (8 inputs with Dual Engine Model)
- ▼ 2x Input 4-20 mA
- ▼ 2x Input 0-5 V (4 inputs with Dual Engine Model)



EngineBox, Cable Harness, Safety Instructions

ENGINE	ARTICLE NR	
Single Engine	A2C1824820001	
Double Engine	A2C1767000001	





# THE LINKUP SERIES

# Single function gateways to integrate sensor readings to NMEA 2000®

The single-sensor **LINKUP GATEWAYS** provide an easy method to convert vessel and engine information to NMEA 2000®. Available in different variants: resistive, voltage, LIN, J1939, IBS and 2-in-1 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

# GENERAL FEATURES

- ▼ 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

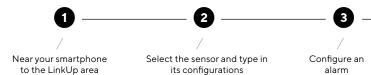








# WIRELESS CONFIGURATION IN JUST 4 STEPS:



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

TECHNICAL DATA	
Operating voltage	6 - 16.5 V
Protection class	IP X9/K
Nominal voltage	12 V / 24 V
Power consumption	≤ 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

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	

















DeviceNet M12 connector 5 pins, 12 V power supply from the network!

Contains the device electronics Notification LED, Wireless interface Different depending on the sensor to interface

LinkUp reduces
wiring, is fast, powerful
and costeffective

ART. NR. B00042201

# **RESISTIVE**

The **RESISTIVE LINKUP** gateway is designed to interface and convert resistive sensors measurements – such as Level, Temperature, or Pressure sensors – to the NMEA 2000® digital era. Optimized for a 0–2000 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.

3 Sensor Connector

# **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 interface the Veratron Pyrometer thermocouple (NO3-320-264)

# **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!
- f au 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
<b>3</b> / Pyrometer thermocouple	N03-320-264

#### **NMEA PGNS**

Exhaust Temperature	130316
<u> </u>	

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 (State 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 overcharging and overheating which can shorten battery life

	<b>12 V</b> B00042501	<b>12 V II</b> B00042502	<b>24 V</b> 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 adapter 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

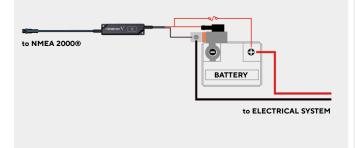
**Autonomy**: Estimated battery duration based on the instantaneous current consumption of the system

#### **NMEA PGNS**

DC Detailed Status	127506
Battery Status	127508
Battery Configuration Status	127513

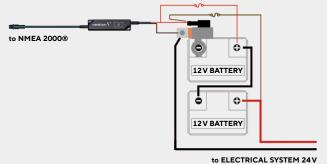
# **12 VOLT SYSTEMS**

- ▼ Two sensors available for 12V batteries
- ▼ IBS is connected to the battery negative pole
- ▼ Measuring line to the positive pole



# **24 VOLT SYSTEMS**

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









ART. NR. B00070501

# 2-IN-1 (PRESSURE + OIL TEMPERATURE)

This sensor measures pressure or temperature of transmission or engine oil while providing 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  $\pm 0.2$  bar (range 0.5 -3 bar),  $\pm$  0.1 bar below and  $\pm$  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 NMEA 2000® 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 Temp	
Engine Hours	Exhaust Temp	
Engine Load	Fuel Level	
Engine Oil Temp	Fuel Press	
Engine Oil Press	Fuel Rate	
Coolant Temp	Inst Fuel Economy	
Coolant Press	Alternator Current	
Boost Press	Alternator Potential	
Percent Torque	Battery Potential	
Transm. Oil Press	Transmission Gear	

# SUPPORTED ALARMS

JOI I ORIED ALARMIS			
Low Fuel Press	Low Battery Voltage		
Water In Fuel	Engine Overspeed		
Low Engine Oil Level	vel 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. B00059201

# 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®**

#### SUPPORTED DATA

Boost Pressure	
Oil Temperature	
Oil Pressure	
Gear Oil Pressure	
Gear Oil 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**

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.

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	<b>LENGTH</b> adjustable	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	<b>LENGTH</b> adjustable	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



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	A2C1750740001	A2C1745890001	A2C1747350001
900 mm	A2C1750750001	A2C1745900001	A2C1747360001
950 mm	A2C1750780001	A2C1745910001	A2C1747370001
	A2C1750770001	<del></del> ,	
.000 mm		A2C1745920001	A2C1747380001
050 mm	A2C1750810001	A2C1745930001	A2C1747390001
100 mm	A2C1750840001	A2C1745940001	A2C1747410001
150 mm	A2C1750850001	A2C1745950001	A2C1747420001
200 mm	A2C1750860001	A2C1745960001	A2C1747430001
1400 mm	B00068601	-	-



# **DIP-PIPE LEVEL SENSORS**

The Dip-Pipe Level Sensor is ideal for usage in fuel tanks. Its 38 mm diameter vertical tube contains a float inside, which measures the liquid's level. Small holes at the top and bottom of the tube act as a baffle to fuel sloshing around in the fuel tank, so the float position remains stable at any sea state. The sensors are made in various lengths starting from 150 mm up to 1200 mm – when selecting the sensor, make sure that the length chosen is at least 4 mm from the base of the fuel tank once fitted.

# **SPECIFICATIONS**

- ▼ TE Superseal Connector IP67
- **▼** Compensation chamber
- ▼ Flange: PA66 GF30
- ▼ Wiring harness with length of 200 mm
- **▼** 3 Signal ranges:  $90-4 \Omega$ ,  $0-180 \Omega$ ,  $240-33 \Omega$
- ▼ 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 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

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 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



# **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

# **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 (LinkUp gateway included)

#### **CONNECTING CABLE**

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

#### THREADED BUSHING FOR WELDING TO MANIFOLD

**ARTICLE NR:** N03-320-266

# **BATTERY SENSOR**

# **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





# 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









# VMH 35 OUTBOARD ENGINE KITS

# VMH 35 Outboard Engine Kits include:

- ▼ VMH 35 Display
- ▼ IBS 12V 250 Ah with battery adapter
- ▼ Wire harness 6m with connectors for level sensor and IBS
- ▼ Bullets terminals for tachometer trim and power supply

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	





# **NAVIGATION KIT**

Complex boats need a smart solution. And we have it. OceanLink $^{\text{TM}}$  display is the only product on the market able to interpret CAN, NMEA 2000 $^{\circ}$  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 Navigation Kit includes:

- ▼ Wind Sensor NMEA 2000®
- ▼ NMEA 2000® Triducer Sensor
- **▼** OceanLink<sup>™</sup> 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





OceanLink™ 4.3" TFT Display



NMEA 2000® Triducer 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.







#### ARTICLE NR

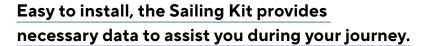
A2C3935310001

#### The Sailing Kit includes:

- ▼ 1 OceanLink™ GPS Speedometer
- **▼** 1 wind sensor
- ▼ OceanLink<sup>™</sup> Navigation gauge wind angle
- ▼ OceanLink<sup>™</sup> 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.







# **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	60	
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	50
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 7", black	A2C1697530001	
Bezel TFT 7", white	A2C1697540001	
Suncover for OL43 display	B00129601	-
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	
	0.3 m	A2C9624460001	
		A2C3880570001	
VDO Bus Cable		A2C9624500001	_
		A2C9624510001	
VDO Bus Gender Changer		A2C3880550001	4
VDO Bus Termination Resistor		A2C9979390001	
NMEA 2000® Power Cable		A2C3931290001	
NMEA 2000® T Splitter		A2C3931270002	
	0.5 m	A2C9624370001	-
	2 m	A2C9624380001	
NMEA 2000® Cable	6 m	A2C9624400001	
	10 m	A2C9624420001	
	30 m*	A2C59501950	
NMEA 2000® Terminator Female		A2C3931060001	
NMEA 2000® Terminator Male		A2C3931100001	
NMEA 2000® Inline Terminator		A2C3931250001	4
NMEA 2000® Infield Installation Connector Fer	male	A2C3930850001	<b>O</b> -10
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 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	0
26 pin NavBox analog harness		A2C9875480001	7
MediaBox cable harness		A2C1313150001	

<sup>\*</sup> 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	<b>84</b>
Power cable and data cable for OceanLink™ TFT 7" Engine 1	A2C1507870001	9
Data cable for OceanLink™ Master TFT 7" Engine 2	A2C1992110001	9-
Adapter Cable IBS 12 V	B00090601	9
Adapter Cable IBS 24 V	B00090701	
Adapter Cable LinkUp - Volvo Penta¹	B00102701	
Adapter Cable LinkUp - Yanmar²	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 Chrome	A2C5318602201 A2C5318602301
Totale and the second		<del></del>
Triangular	Black White	A2C5318602401 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	50
Spinlock nut 80/85 mm	A2C5321223801	
Spinlock nut 110 mm	A2C5323888101	
Pushbutton for LCD 13.6 mm	A2C1028400001	
Connector set 8 pin	A2C59510850	THE WAY
Connector set 14 pin	A2C59510851	1000
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	
VL GPS Speed and VL Flex NMEA harness	A2C9582260001	
Bracket assembly mounting set	A2C59510854	2211
Blindplug for Ø 52 mm	A2C5312164501	
ViewLine adapter cable to WWG	B00013402	

# 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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