veratron VL Flex Series ViewLine Flex Gauge Owner's Manual

Contents

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Product Usage Instructions

Installation:
Follow the installation guide provided in the manual to set up the VL FLEX SERIES device securely in your vehicle or desired location.

Configuration:
Use the Configurator Smartphone App to customize the display layout, alarms, and other settings according to your preferences.

Display Layout:
You can choose between single or dual layout display options to view different data simultaneously on the instrument.

Data Monitoring:
The VL FLEX SERIES supports various data inputs such as fuel level, speedometer readings, battery status, engine parameters, and more for comprehensive monitoring.

Battery Monitoring System:
If using the VL Flex IBM Kit, benefit from continuous monitoring of battery status including voltage, current, temperature, state of charge, and battery health.

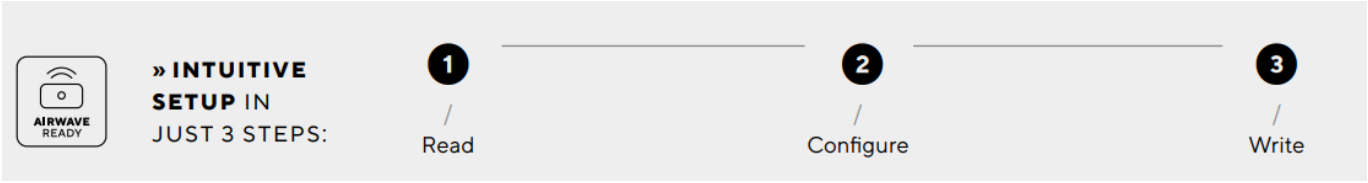
All-in-one / universal / contactless device configuration / all-rounder

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

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.



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	9 – 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 · CE · UKCA · UL · NMEA 2000

DISPLAY LAYOUT

Single layout / Dual layout

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

art. nr. B00111301 (white)
art. nr. B00043501 (Black)

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 interface
- Resistive and frequency inputs
- IBS port for Battery monitoring

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art. nr. B00086001 (Black)

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 CAN interface
- Resistive and frequency inputs
- IBS port for Battery monitoring

art. nr. B00084701 (12V Version)
art. nr. B00084801 (24V Version)

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

SUPPORTED DATA

Fuel Level	Speedometer
Fresh Water Level	Ammeter
Waste Water Level	Voltmeter
Trim Level	Battery SOC
Rudder Angle	Battery SOH
Coolant Temperature	Battery Temperature
Boost Pressure	Battery Autonomy
Engine Oil Temperature	Engine Hours
Engine Oil Pressure	Speed Over Ground (SOG)
Transmision Oil Pressure	Course Over Ground (COG)
Depth	Clock
Tachometer	Exhaust Temperature

J1939 SPNS

Wheel Speed	84	Exhaust Temp	173
Engine Load	92	Oil Temperature	175
Fuel Level	96	Gear Oil Temp	177
Oil Level	98	Fuel Rate	183
Oil Pressure	100	Fuel Economy	184
Boost Pressure	102	Engine Speed	190
Coolant Press	109	Odometer	245
Coolant Temp	110	Engine Hours	247
Battery Current	114	Total Fuel	250
Brake Pressure	117	Clock	959
Gear Oil Level	124	DEF/BLUE Level	1761
Gear Oil Pressure	127	Batt SOC / SOH	
Battery Potential	168	Battery Temp	
Air Temperature	171	Batt Autonomy	

» DOWNLOAD THE CONFIGURATOR APPS

Available on the App Store Get it on Google play

art. nr. B00084701 (12V Version) / B00084801 (24V Version)

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, Current, Battery temperature, State of charge,Battery health, Autonomy
- **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

Frequently Asked Questions

Q: Can I use the VL Flex with liquid level sensors?
A: Yes, the VL Flex supports connecting to Veratron dip-pipe liquid level sensors for monitoring various liquid levels.

Q: How do I configure custom alarms on the VL Flex?
A: Use the Configurator Smartphone App to set up custom alarms based on your preferences and requirements for timely notifications.

Q: What is included in the VL Flex IBM Kit?
A: The VL Flex IBM Kit includes the VL Flex 52 instrument,Intelligent Battery Sensor (IBS), battery pole adapter, and a 6-meter long wiring harness for easy installation and setup.

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Documents / Resources

	veratron VL Flex Series ViewLine Flex Gauge [pdf] Owner's Manual VL Flex Series, VL Flex Series ViewLine Flex Gauge, ViewLine Flex Gauge, Flex Gauge, Gauge

References

- User Manual