

PRODUCT BASIC INFORMATION

VL FLEX SERIES

Easy to install, easy to customize, easy to use.



VL FLEX SERIES

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.



» INTUITIVE SETUP IN JUST 3 STEPS:







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 DA | TΑ |
|--------------|----|
|--------------|----|

| Display | 1.44" sun-readable color TFT display 125 x 125 pixels | | |
|-----------------------|---|--|--|
| Resolution | | | |
| 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 | | |















OPTIONAL COCKPIT BRACKET

B00100901 WITH INTEGRATED PUSH BUTTON

B00100801 WITHOUT PUSHBUTTON



DISPLAY 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

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 | |

ART. NR. B00110901 (WHITE) 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

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 | |
| | | | |

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







» DOWNLOAD THE **CONFIGURATOR APPS**







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







OUTDOOR INSTRUMENTATION ENGINEERED IN SWITZERLAND



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