

PRODUCT INFORMATION

VL DIGITAL

Outdoor Instrumentation Engineered in Switzerland





VL DIGITAL - SMART, PRECISE, FLEXIBLE.

Experience the next generation of instrumentation with VL Digital—where precision meets innovation.

Designed for versatility, it combines high-performance digital technology with intuitive features like customizable displays, multiple input options, and smart connectivity. Whether for advanced monitoring or seamless integration, VL Digital offers a modern, user-friendly solution for a wide range of applications.



KEY FEATURES

- **▼** High-performance digital round gauges
- ▼ 80/85mm and 52mm variants available
- ▼ Color segmented display with telltales
- ▼ Customizable with 9 stylish bezels
- ▼ 12/24 V nominal voltage
- **▼** Fully configurable 52mm variant (functions and alarms)
- ▼ Analog and digital (CAN) input (250 and 500 kbit/s)
- ▼ Alarm output on both variants
- ▼ Configuration via smartphone for easy setup
- ▼ Laser pushbutton for seamless data scrolling
- ▼ Custom alarm text























SUPPORTED CONFIGURATIONS

ENGINE	BATTERY	WEATHER
RPM	Battery Voltage	Outside Air Temp
Gear Position	Ammeter	
Boost Pressure	Battery SOC	VEHICLE
Coolant Pressure	Energy consumption	Clock
Coolant Temp	Remaining range	Speed
Fuel Rate	Alternator Potential	Odometer
Engine Hours		Trip Time A
Air Intake Temp	TANKS	Trip Distance A
Engine Load	Fuel Level	Trip Time B
Exhaust Temp	Fresh Water Level	Trip Distance B
Engine Oil Temp	DEF / Blue Level	Brake Pressure
Engine Oil Press	Fuel Temp	Hydraulic Oil Temp
Transm Oil Temp	Fuel Pressure	Hydraulic Oil Press
Transm Oil Press		PTO 1 and PTO 2
Iransm Oil Press		PIO 1 and PTO 2



VL Digital represents a quantum leap, combining state-of-the-art technology with powerful functions to meet modern needs.



Flexible

Two devices only to cover all the system configurations you might need.



Compatible

Plug-and-play replacement of your ViewLine instrument thanks to the backwards compatible connector pinout.



Programmable

Fully configurable with smartphone app to display the data you need.



Readable

The sunlight-readable display ensures perfect readability under every lighting condition.



Customizable

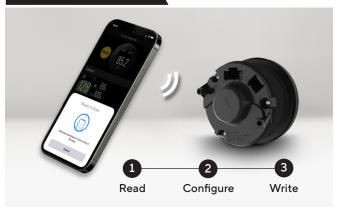
Give your VL Digital instrument a stylish touch with 9 different decorative bezels.





Instantly configure your instrument with your smartphone—no PC, no interfaces, just seamless wireless setup.

APP CONFIGURATION



- ▼ Fast: no prior pairing is required, just near the phone to instantly configure it.
- ▼ Efficient: thanks to the passive receiver you can configure the device powerless!
- **▼ Secure:** the configuration requires proximity to the device.
- ▼ Cost-effective: no hardware interface is required.

Seamless Configuration at your Fingertips – Easily configure your VL Digital device in seconds using Veratron's proprietary wireless link. All you need is your smartphone and the configurator App. The user-friendly configurator App will easily guide you through the configuration, which you can download to the instrument by simply nearing your phone to it.

85 mm Instrument

- ▼ 8-poles MQS connector plug-and-play compatible with existing ViewLine gauges
- Configurable as Tachometer / Speedometer / Power
 Meter for electrical vehicles
- Dual frequency input for tachometer and hall-effect speed sensor
- Analog resistive ports for resistive sensors like Fuel or Water Temp
- **T CAN port with SAE J1939** protocol with diagnostic data
- **▼** Selectable displayed data
- Dedicated inputs for alarm lamps, and specific input for Alternator D+
- ▼ Configurable local alarms
 with user-defined hysteresis and activation delay
- **▼** Service Maintenance notifications

52 mm Instrument

- ▼ 8-poles MQS connector plug-and-play compatible with existing ViewLine gauges
- Fully configurable with smartphone app to display the data you need
- Programmable Warning and Alarm levels for the displayed data
- ▼ **Alarm output** for external buzzer or lamp activation
- ▼ Data measured from analog port or received via CAN bus with SAE J1939 protocol



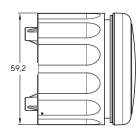
9 different styling rings available

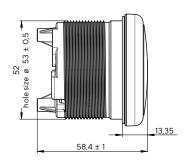
Technical Information and Specifications

TECHNICAL DATA Display IBN color display Front Lens PMMA single lens Spinlock Nut; panel thickness 0.5mm - 20mm Mounting **Protection Class** according to IEC 60529 Front: IP67 (in nominal position) Rear: IP52 (in nominal position) Connector 8/14 pin TE MQS connector system Nominal voltage -20°C to +70°C Operating Temp. -30°C to +80°C Storage Temp. Analog inputs 2x Frequency (one supporting Hall effect sensors) 2x Resistive (85mm) 1x 0-5V (with 5V output for sensor feeding) Analog input (52mm) 1x Resistive SAE J1939 protocol with **CAN** port configurable baud rate Wireless interface AirWave ready for configuration via App

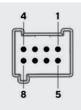
VL DIGITAL 52 MM







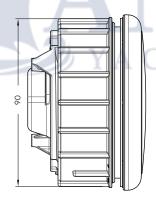


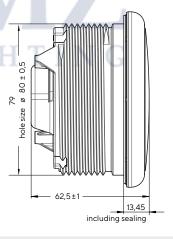


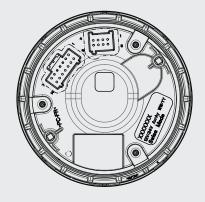
PIN	DESCRIPTION
01_	Battery Plus (Term. 15)
02	GND
03	Signal GND
04	Alarm output 500mA
05	Resistive Input
06	Illumination (Term. 58)
07	CAN Hi (J1939)
08	CAN Lo (J1939)

VL DIGITAL 85 MM

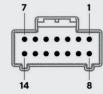












	•••	• • • • • •	01	N.C.
•	• • •	• • • • •	02	Resistive (Fuel)
#			03	Resistive (Water Temp)
8	5 14	8	04	0-5 Volt in (OPT)
			05	Input active H (High Beam)
PIN	DESCRIPTION		06	Input active H (Turn R)
01	Battery Plus (Term. 15)		07	Input active H (Turn L)
02	GND		08	Input active L (Alternator D+)
03_	Freq GND		09	Input active L (Oil Pressure)
04	Freq signal 2 (Hall)		10	Input active L (Pre Heat)
05_	Freq signal (RPM)		11_	Input active L (Water Temp)
06	Illumination (Term. 58)		12	5V Out (sensor feed) / OPT
07	CAN Hi (J1939)		13	Alarm out 1 (+ prog hysteresis)
80	CAN Lo (J1939)		14	Alarm out 2 (+ prog hysteresis)

PIN DESCRIPTION

ACCESSORIES	ARTICLE NR.		
8-pin harness	A2C59512947		
14-pin harness	B00214601		
Spinlock nut 52 mm	A2C5205947101		
Spinlock nut 85 mm	A2C5321223801		
Connector set 8 pin	A2C59510850		
Connector set 14 pin	A2C59510851		
Hand pliers	TE No. 539635-1		
Single contacts 0.14 – 0.22 mm² tin plated	TE No. 1355718-1		
Single contacts 0.5 – 0.75 mm² tin plated	TE No. 963729-1		
Strip 0.14 – 0.22 mm² tin plated	TE No. 1355717-1		
Strip 0.25 – 0.5 mm² tin plated	TE No. 928999-1		
Strip 0.5 – 0.75 mm² tin plated	TE No. 963715-1		

ngle contacts 0.5 – 0.75 mm² tin plated	TE No. 96372	29-1			
rip 0.14 – 0.22 mm² tin plated	TE No. 13557	17-1	BULK	ART.NR.	
rip 0.25 – 0.5 mm² tin plated	TE No. 92899	9-1	VL DIGITAL 52 bulk of 10 Units	B00205710	
rip 0.5 – 0.75 mm² tin plated	TE No. 96371	.5-1	without Wire and Bezel		
			VL DIGITAL 85 bulk of 10 Units without Wire and Bezel	B00205810	
E7ELS Black	Chromo	\M/bi+o			

INSTRUMENT

VL DIGITAL 52 Triangular Black Bezel

VL DIGITAL 52 Triangular Chrome Bezel

VL DIGITAL 52 Round Chrome Bezel

VL DIGITAL 85 Triangular Black Bezel

VL DIGITAL 85 Triangular Chrome Bezel

VL DIGITAL 85 Round Chrome Bezel

VL DIGITAL 85 Round Black Bezel

VL DIGITAL 52 Round Black Bezel

BEZELS	Black	Chrome	White				
Bezel 52 mm							
Flat	A2C53186040	A2C53186023	A2C53186022				
Round	A2C53186027	A2C53186029	A2C53186028				
Triangle	A2C53186024	A2C53186026	A2C53186025				
Bezel 85 mm				TA.			
Flat	A2C53192911	A2C53192910	A2C53192912				
Round	A2C53192913	A2C53192914	A2C53192916				
Triangle	A2C53192917	A2C53192918	A2C53192920				_
			YA	C	H	IN	G

OUTDOOR INSTRUMENTATION ENGINEERED IN SWITZERLAND



ART.NR.

B00205701

B00205702

B00205703

B00205704

B00205801

B00205802

B00205803

B00205804

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