

PRODUCT PREVIEW

# VR<sup>2</sup> CAN

**Dual Sender Interface:** Voltage  
/ Resistance Sender to J1939  
/ NMEA2000™ converter



**Key Features:**

- / Rugged IP66/67 rated enclosure
- / NMEA2000™ certified
- / Multiple devices can be connected to the same network segment (30 for J1939 networks and 50 for NMEA2000™ networks)
- / 2 x isolated analogue inputs
- / 4 x standard spade terminals
- / 2 x configurable sender charts per channel
- / Multiple sender definitions supported out of the box



IP 66 / 67



x1 CAN Port



+ 70°C  
- 20°C  
Operating Temp.



x2 Isolated  
Analogue Inputs



12-24V Supply



J1939™  
NMEA  
2000™  
Communication



Low Current  
Consumption



x1 USB 2.0 Port  
for configuration

## VR2CAN - DUAL SENDER INTERFACE FOR VOLTAGE/RESISTANCE SENDERS.

The dual sender interface features two isolated analogue inputs, capable of converting resistance and voltage signals from slow moving senders such as fluid level or resistive position senders to either J1939 or NMEA2000™ CAN bus data representing a specific real-world value as defined by the J1939 or NMEA2000™ standard.

The product's isolated analogue inputs are configurable to be a resistance input or voltage input, and are protected from voltage application up to +/-50V, even when the device is not powered.

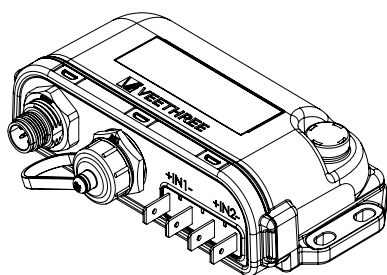
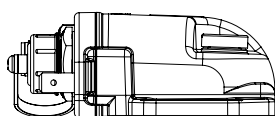
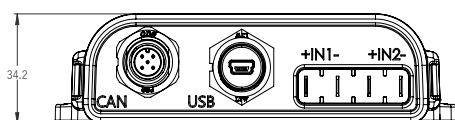
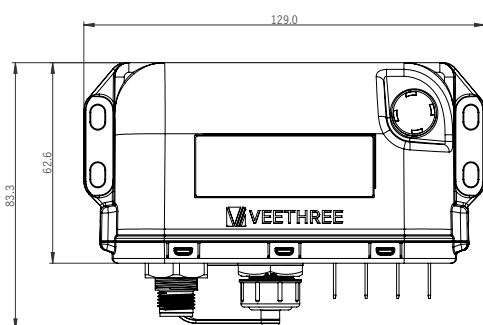
The device comes with multiple predefined sender charts allowing for simple user set-up. Custom configurable tables for pressure, temperature and trim senders with specific functions are also supported.

The device has a single bi-coloured LED, that provides the user with an instant visual reference to the current status of the device. The device can be configured using our PC desktop application, or via CAN bus. Firmware for the device can also be updated via the PC desktop application.



## Specifications

**Please note:** The product description and technical specifications are subject to change prior to the official VR2CAN launch.



## Certifications

### NMEA2000™ Certified

**ISO 16750-2:2012 Road vehicles** — Environmental conditions and testing for electrical and electronic equipment.

**ISO 7637-2:2011 Road vehicles** — Electrical disturbances from conduction and coupling.

**IEC 60945:2002** — Maritime navigation and radiocommunication equipment and systems.

## Electrical

Power Requirements	12V to 24V DC 0.5W
Load Equivalence Number	1
Connectors	x1 M12 / x1 USB Mini B / x4 Spade Terminals (5.4mm)
Communications	x1 CAN / x1 USB 2.0*

## Environmental

Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Degree of Protection	IP66 / IP67

## Mechanical

Case Colour / Material	Black Polycarbonate
Weight	120g
Dimensions	129mm x 62.6mm x 34.2mm

## Inputs

Analogue Input	x2 isolated analogue voltage / resistance inputs			
Sender range:	0-250Ω	0-500Ω	0-5V	0-10V
Min Resolution	0.25Ω	0.5Ω	1.25 mV	2.5 mV
Accuracy	1.25Ω	2.5Ω	5 mV	10 mV

## Supported J1939 PGN list

Parameter	PGN	SPN
Fuel Level 1	65276	96
Fuel Level 2	65276	38
Engine Coolant Level	65263	111
DEF Level (%)	65110	1761
Engine Oil Pressure	65263	100
Engine Crankcase Pressure	65263	101
Engine Extended Range Coolant Pressure	65172	20
Engine Turbocharger Lube Oil Pressure 1	65245	104
Engine Turbocharger Lube Oil Pressure 2	65179	1168
Transmission Oil Pressure	65272	127
Engine Intake Manifold #1 Pressure	65270	102
Engine Intake Manifold #2 Pressure	64976	3562
Engine Turbocharger 1 Boost Pressure	65190	1127
Engine Turbocharger 2 Boost Pressure	65190	1128
Engine Coolant Temperature 1	65262	110
Engine Coolant Temperature 2	64870	4076
Engine Oil Temperature 1	65262	175
Engine Oil Temperature 2	65188	1135
Engine Turbocharger Oil Temperature	65262	176
Engine Transmission Oil Temperature 1	65272	177
Engine Transmission Oil Temperature 2	64917	5913

## Supported NMEA2000™ PGN list

Parameter	PGN	FIELDS
N2K Fluid Level	127505	1, 2, 3, 4
Rudder Angle	127245	1, 5
Engine Tilt / Trim	127488	1, 4
Engine Oil Pressure	127489	1, 2
Engine Oil Temperature	127489	1, 3
Engine Temperature	127489	1, 4
Engine Boost Pressure	127488	1, 3
Temperature Extended Range	130316	2, 3, 4
Actual Pressure	130314	2, 3, 4

\*USB port for configuration only