

VDR Gateway

VRS 002 G2

The VRS 002 G2 – VDR Gateway stands as an efficient, plug-and-play solution designed for the cyber-secure distribution of VDR (Voyage Data Recorder) data onboard vessels.

This gateway acts as a robust firewall and proxy server, bridging the VDR with various networks and systems securely. It employs a secure “one-way” protocol to receive data from the VDR, ensuring the distribution of this data to multiple systems in various forms and formats, all while maintaining the VDR’s optimal performance.

Enhanced Functionalities with Feature Key

Upon installation of the feature key p/n 6305613, the VRS Gateway unlocks several advanced features, elevating its operational capabilities.

Data Processing

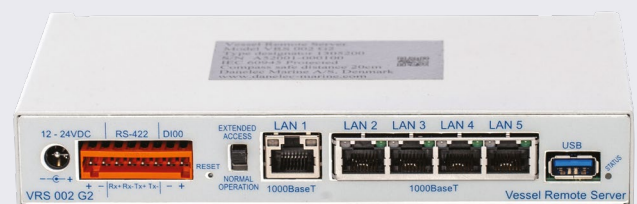
Challenges in decoding IEC 61162-1 data, stemming from diverse source formats and units in different vessels, are seamlessly addressed by the VRS Gateway. It can decode and standardize data, presenting the data using an REST/JSON Interface. This feature greatly facilitates the integration and deployment of IT systems, including those not originally designed for marine settings, thereby boosting compatibility and user-friendliness.

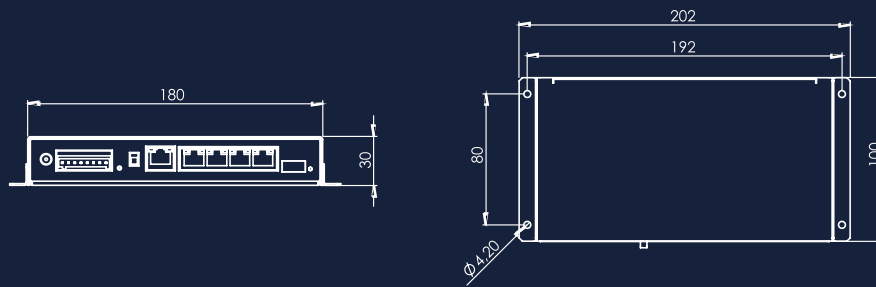
Mini VDR Functionality

The Gateway may function as a simple VDR that can record and distribute additional sensor data that are irrelevant to the VDR, i.e., keeping the VDR installation as simple as possible. It may also be used to record and distribute data on a vessel where no Danelec VDR is installed.

Advanced Motion Tracking/ Inclinometer

The Gateway is equipped with a state-of-the-art motion tracking system, compliant with the ISO 19697 standard, and in addition, capable of transmitting information about the vessel’s pitch. This rich data regarding the vessel’s movements and water positioning is critical for performance analysis and crucial to safety applications, offering a heightened level of operational insight and safety management.



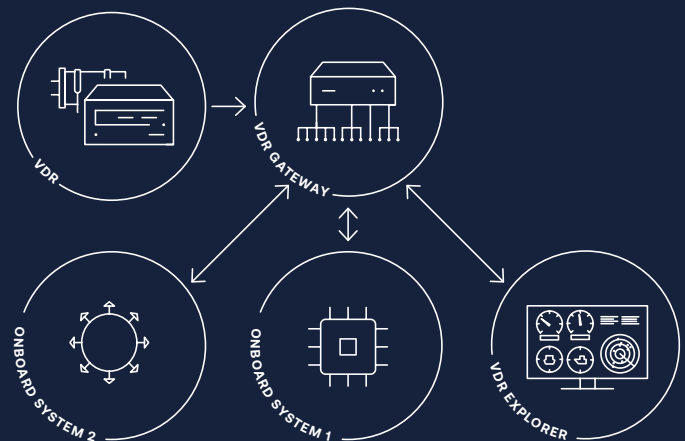


Product Specification

Dimensions	
Weight	450 g
Height/Width/Depth	30 x 202 x 100 mm
Interfaces	
Ethernet (1000BASE-T)	5 ports
RS-422 serial interface	1 TX/RX
Digital inputs	1
Electrical	
Power supply	AC (110-230V, 50-60Hz) IEC 60945 nominal
Power consumption	12-24VDC IEC 60945 nominal, 10W. 110-230VAC IEC 60945 nominal, 12W.
Environmental	
EC 60945 protected	
Onboard Output Format	
Sensor data	IEC 61162-450 IEC 61162-450 sensor data format over TCP/IP REST/JSON API* OPCUA MQTT
Images	UDP
* Requires: VRS VDR Gateway, general feature key	
Cybersecurity	
Certification	IEC 61162-460 ed. 3 & IACS E27

Scope of Supply

P/N	Description
1305590	VRS 002 - VDR G2 Gateway (with AC adaptor and CD) AC plugin adaptor, 110-230VAC, various plug types Mounting brackets - kit
Option	
6305613	VRS VDR Gateway, general feature key



Local Distribution of Data to Onboard Systems

The VDR Gateway enables local distribution of unprocessed VDR data (DVA streaming) to onboard systems. The VDR Gateway will not connect to internet.

The VRS VDR gateway, general feature key will enable local distribution of data from other sources than the VDR. The general feature key also enables local distribution of unprocessed and processed data from a wide range of sources.

There is always a service tech near your ship

Our extensive global network of service centers carry spare parts and provide service repairs 24/7 with 1.000+ factory-certified technicians in 50+ countries.