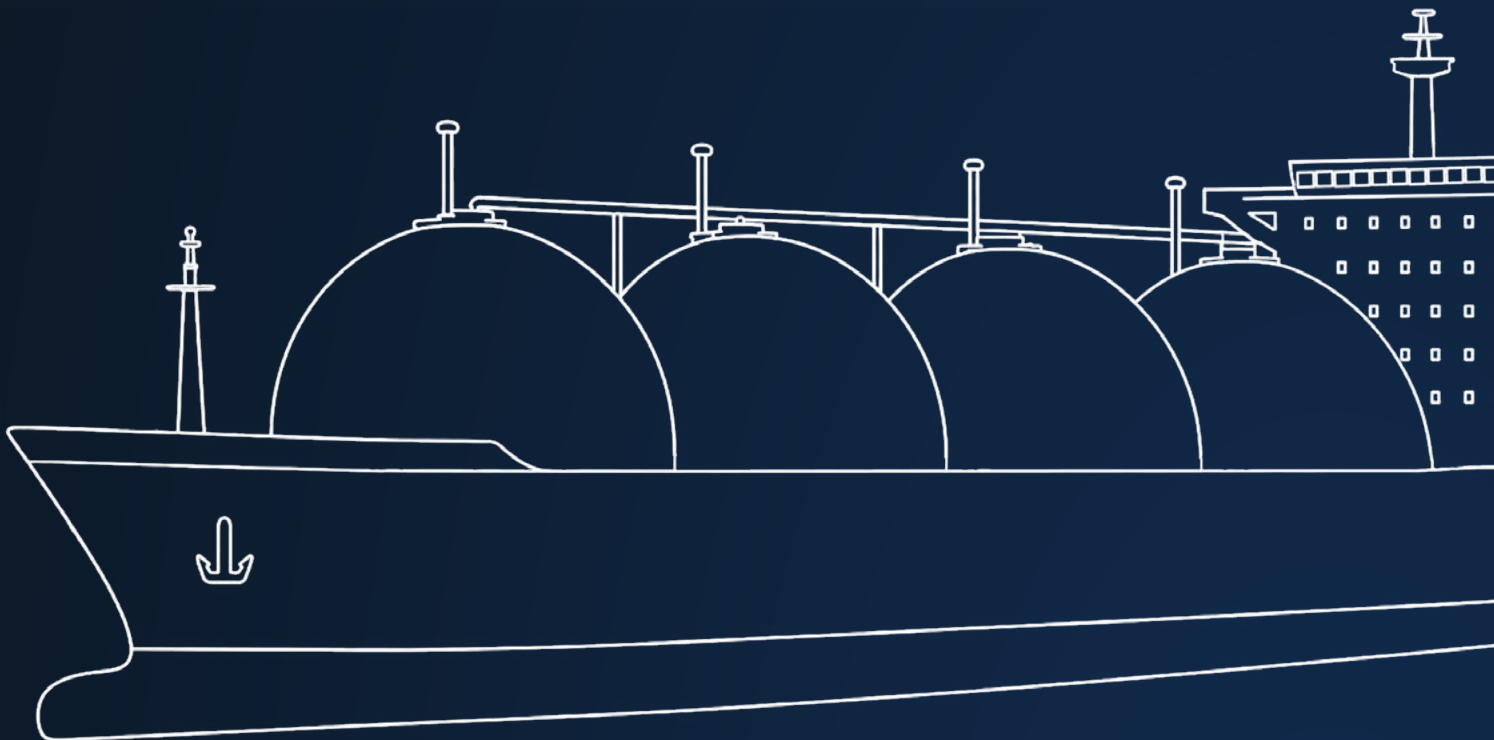


Measure.

Precision measurement systems

Reliable performance starts with accurate measurement. VAF measurement systems are engineered to capture the essential operating data that vessels and onboard systems depend on: fuel consumption, shaft power, torque, thrust, viscosity, density, temperature and related process values.



Reliable data starts with measurement

In maritime operations, every decision based on data starts with the quality of the measurement. Fuel use, propulsion load, efficiency, emissions and operating condition can only be understood when the measured values are accurate, stable and repeatable.

The foundation of performance data

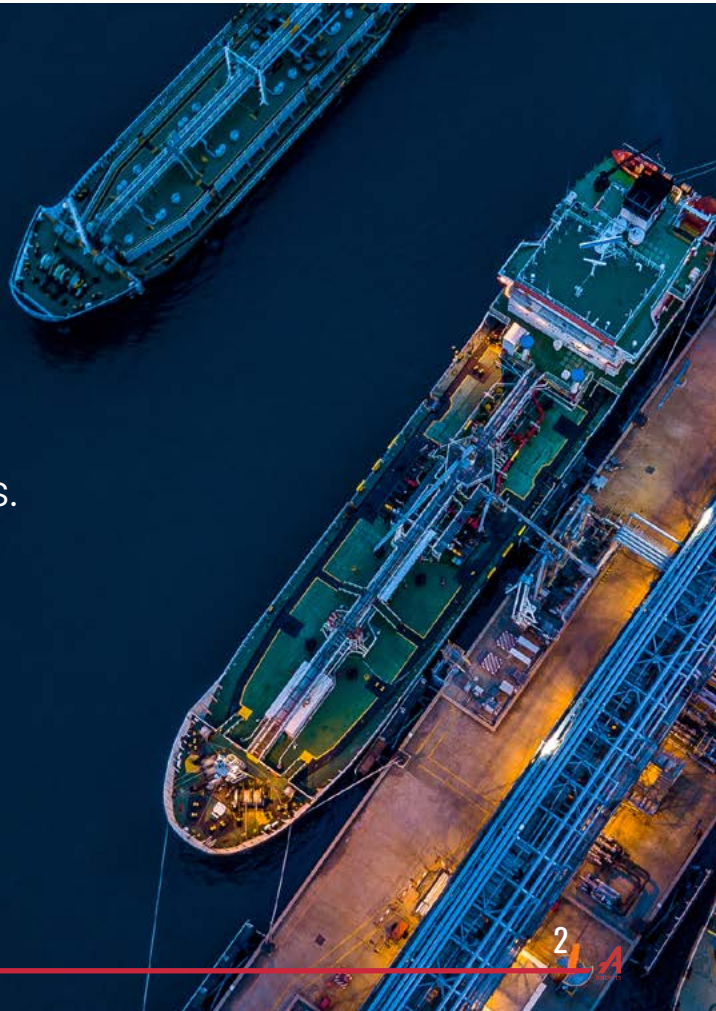
Measurement is the first step in the VAF proposition. It creates the factual basis for data systems, dashboards, reporting and operational control. Without reliable measurement, connectivity and performance analysis have no dependable foundation.

Built for real-world conditions

VAF measurement systems are developed for demanding maritime and industrial environments. The focus is on stable operation, long service life and practical installation in engine rooms, fuel systems and propulsion lines.

Positioned to measure, connect and perform

Measure provides the reliable operating values. Connect makes those values available to data systems and information platforms. Perform translates the resulting insight into better operational decisions.



Measure. Connect. Perform.
Turning data into confident decisions.

What can be measured

VAF measurement systems cover the operating values that matter most for vessel efficiency, propulsion performance and process reliability.

Measurement domains

- | | |
|---|---|
|  Fuel and process flow |  Propeller thrust where required |
|  Fuel temperature and temperature compensation |  Auxiliary and project-specific process values |
|  Viscosity, density and mass-flow related values |  Shaft torque, shaft speed and shaft power |

Practical measurement scope

The exact measurement scope depends on the vessel, the fuel system, the propulsion arrangement and the required output data. Systems can be built around a single measurement point, a complete fuel or propulsion setup, or a broader vessel data architecture.

From component to system

The value of measurement increases when individual values are combined. Fuel flow becomes more meaningful when linked to temperature, density, shaft power, speed or operating mode. This is where accurate measurement becomes the basis for better data.



Accuracy, repeatability and compensation



Accuracy

Accurate measurement allows operators to compare operating conditions, fuel use and propulsion behaviour with confidence. It reduces uncertainty and creates a reliable starting point for performance analysis.



Repeatability

Repeatable measurements make trends visible. They help crews and shore teams distinguish between real operational changes and noise in the measurement chain.



Compensation

Where required, measured values can be compensated or corrected for relevant influences such as temperature, density or system configuration. This makes data more comparable and more useful for reporting, monitoring and optimisation.



Engineering focus

VAF measurement systems are engineered to deliver practical accuracy in the conditions in which vessels actually operate.

Measure. Connect. Perform.
Turning data into confident decisions.

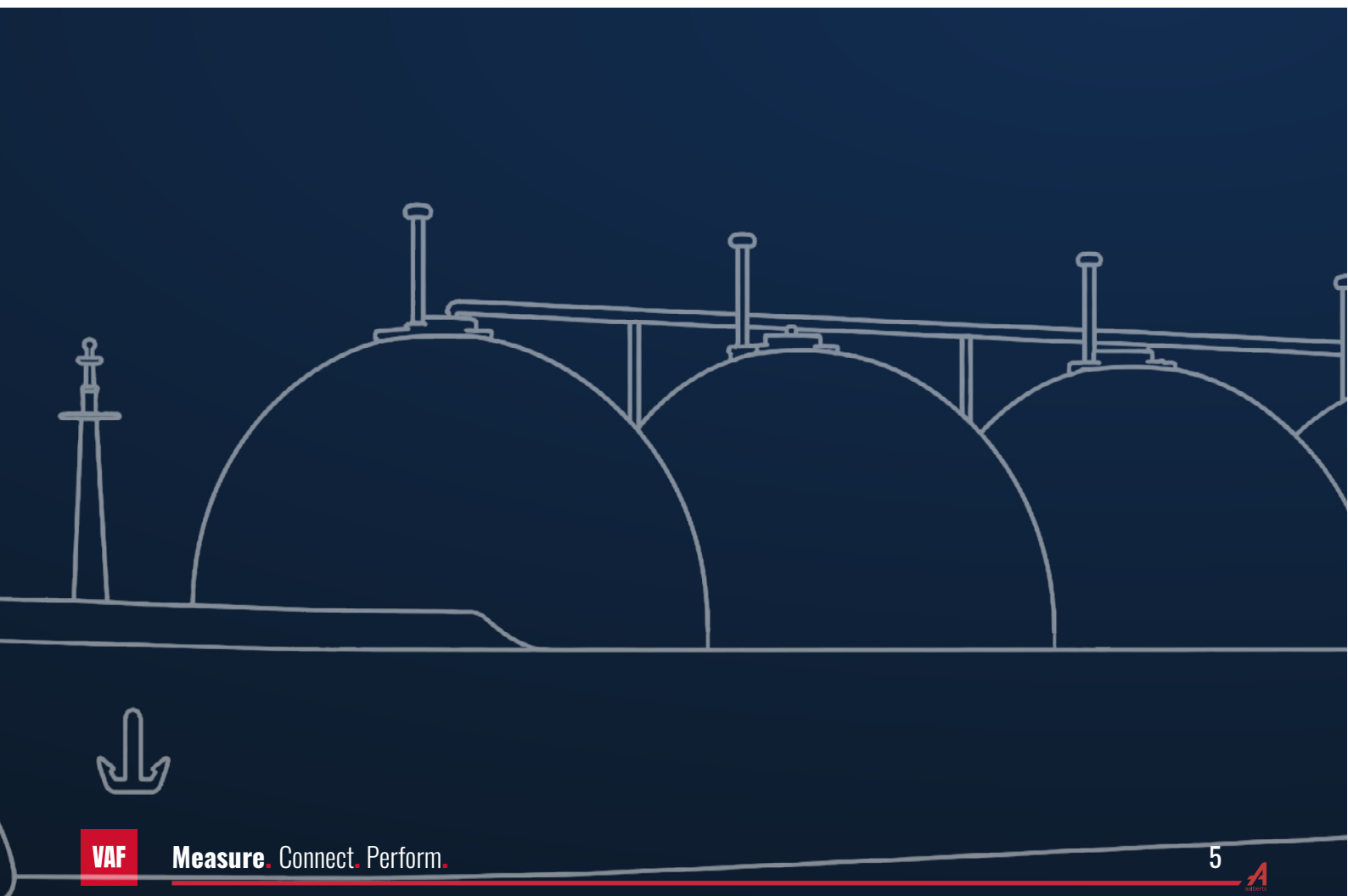
Measurement in practice

Measurement solutions are selected according to the installation, the required accuracy, the available signals and the decisions that the data must support.

Measurement area	Typical signals	Typical use	Value
Fuel and process flow	Flow, temperature, consumption	Fuel monitoring and process control	Accurate consumption and process insight
Shaft line	Torque, speed, shaft power	Propulsion load and energy monitoring	Reliable basis for propulsion efficiency
Propeller / hull	Thrust and torque where required	Separating propeller and hull effects	Clearer performance diagnosis
Fuel quality / condition	Density, viscosity, temperature	Mass-flow and fuel-property compensation	More comparable fuel data
Auxiliary / custom signals	Analog, pulse, Modbus or converted signals	Project-specific monitoring	Fit to vessel-specific requirements

From component to system

Measured values can be used locally, connected to SPU-3 data systems, supplied to customer-specific systems or used as input for reporting and performance applications.



Why choose VAF Measure

Benefits



Reliable measurement as the basis for operational decisions



Solutions for single points and complete measurement setups



Engineering experience in maritime and industrial environments



Practical integration with onboard systems



Measurement systems for fuel, propulsion and process values



Support for customer-specific requirements



High repeatability for trend monitoring



Measurement data ready for data systems and reporting



Temperature and density compensation where required



Built to support long-term vessel operation

Practical benefits

VAF Measure helps owners, operators, yards and system integrators create a dependable measurement basis with less uncertainty. It delivers the trusted values needed for data systems, reporting, efficiency monitoring and operational control.



Expertise, selection and integration



Application advice

The right measurement solution depends on the vessel, the system layout, the operating profile and the required data output. VAF supports the selection of practical measurement configurations.



System selection

From single measurement points to complete fuel or propulsion measurement setups, the system should be selected around the information the operator needs to trust.



Integration

Measured values can be made available to local displays, SPU-3 data systems, customer-specific information systems and third-party platforms.



Experience that matters

Since 1938, VAF has built experience in accurate measurement systems for maritime and industrial applications. That heritage remains the basis for the Measure proposition.

Measure. Connect. Perform.
Turning data into confident decisions.

Get in touch With our experts.

Have a question or want to learn more about VAF? Our team is ready to help. Get in touch using the contact details below.

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The VAF logo consists of the letters "VAF" in white, bold, sans-serif font, centered within a solid red square.

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