



How much fuel are you really using?

KRAL Flowmeters

Fuel Consumption Measurement for Diesel Engines

Fuel consumption dominates operating costs. KRAL Fuel Consumption Measurement Systems measure the actual flow of fuel in the fuel line. KRAL flowmeters are the most precise positive displacement meters available.

Engine Efficiency Management

Engineers use the fuel consumption value as an indicator of optimum engine tuning. Barge operators report that the system pays for itself in less than a year.

Extremely Accurate, Real Time Measurement (+/-0.12%)

View the KRAL fuel display and reduce engine speed until the speed display responds.

Factory Calibrated for Accurate Readings

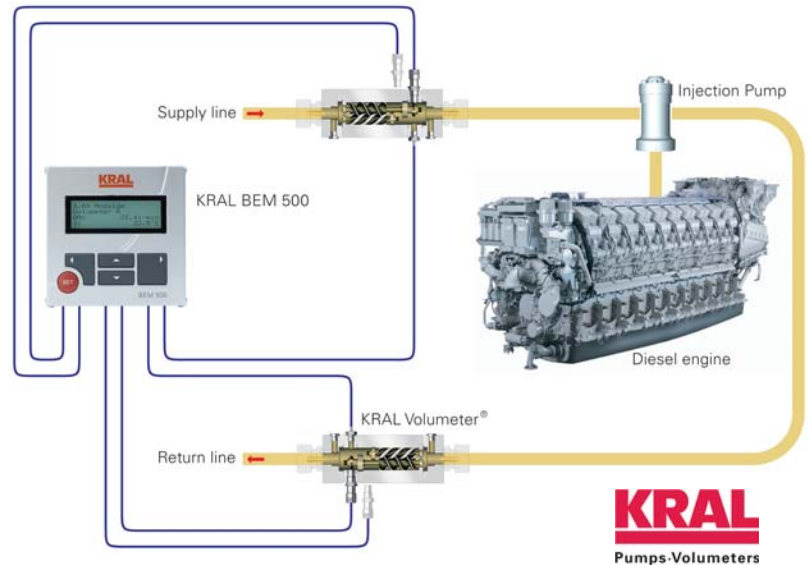
7 point linearization over full flow of meter. Compact design - 2 Flow Meters + 1 BEM electronic display and data storage.

Emissions Control Air Permit Reporting

Document fuel usage: measure hours or fuel consumption.

A Volumeter is a linear positive displacement meter. It divides a fluid into countable quantities and totalizes those quantities using speed sensors and the BEM electronic units.

GCS factory-trained technicians will guide you to select the KRAL solution for your application. We specify, install and commission KRAL FCM systems and custom HMIs to interface with multiple FCM systems.



Fuel Consumption Measurement (FCM) System

The system is comprised of 2 KRAL positive displacement flow meters (Volumeters) and a BEM 500 electronic unit. Temperature differences between the forward and return fuel flows are taken into account to provide a more accurate reading.



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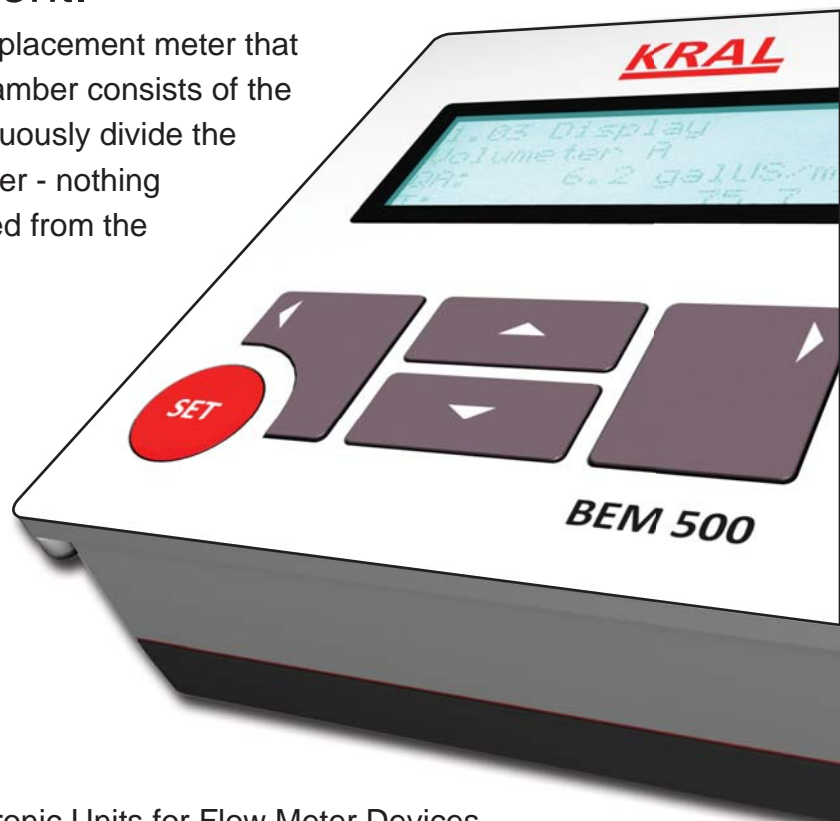
Advanced fuel consumption monitoring and diagnostic system for engine efficiency management.

The KRAL Volumeter is a very compact positive displacement meter that measures the flow of liquids. The measurement chamber consists of the casing and two screw spindles. The spindles continuously divide the liquid in a precision made closed measuring chamber - nothing escapes. The precisely measured value is calculated from the known measuring chamber volume and the spindle rotation speed.

- Real time measurement, idle to full load
- Factory Calibrated
- Extremely accurate (+/- 0.12%)
- Compact design, robust cast iron cases; steel nitrated spindles
- All major marine certifications.
- Available in six (6) design sizes, engine sizes 300 kW and up

Optional:

- BEM 800 Electronic Units display flow values for up to 16 engines
- External bypass



Electronic Units for Flow Meter Devices

BEM electronic units are matched to KRAL flow meters and their applications and can be installed in the engine room or in remote locations. They display the measured fuel consumption in addition to the values recorded at each meter. Special PC software (BEM1000) can be used to capture and analyze the data over Modbus interface.

GCS provides troubleshooting and support for the life cycle of your system including recalibration and maintenance to ensure precise measuring and technical functionality.

Call +1 877-659-6328, or email sales@govconsys.com to discuss the benefits of a KRAL FCM system for your application.

Governor Control Systems, Inc.

Florida: 877-659-6328

Gulf Coast: 888-427-4853

Mid-Atlantic: 877-659-6328

Pacific Northwest: 425-513-9390

sales@govconsys.com

www.govconsys.com

