



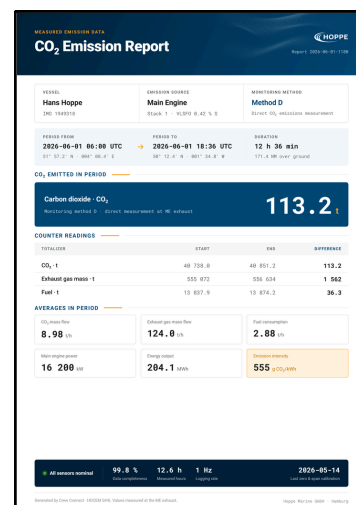
HOCEM GHG - EMISSION MONITORING

Continuous Emission Monitoring for Maritime Compliance & Performance

HOCEM™ (Hoppe Continuous Emission Monitoring) provides real-time, onboard measurement of greenhouse gas emissions, enabling ship operators to verify actual emissions, improve reporting accuracy, and identify opportunities to reduce compliance costs.

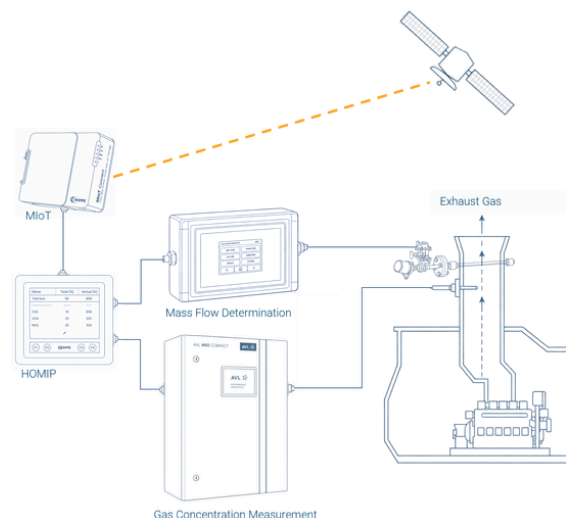
Why Hoppe

- Robust and reliable greenhouse gas measurements for compliance-critical application
- Accurate measurements across all engine load ranges
- Comes with MIoT™ (Maritime Internet of Things), enabling continuous monitoring of system health and proactive maintenance
- Seamless integration in existing Hoppe Performance Monitoring Platforms



System Design

- AVL M50 Compact - Gas Concentration Analyzer
- Differential Pressure Probe - Gas Mass Flow Meter
- HOMIP (Central Data Processing)
- MIoT Connect Device - Remote Maintenance and Data Forwarding



Benefits of EU MRV Method D

- Highest accuracy, taking into account real fuel composition, engine condition and combustion performance
- Lower installation effort compared to flow meter solutions as no piping modifications are required
- Avoids tampering risks inherent to fuel flow meter bypass lines
- Supports EU ETS, FuelEU Maritime and future regulatory requirements
- Future-ready architecture adaptable to new fuels and emissions requirements

Powered by AVL. Integrated by Hoppe. Built for Compliance.

Combining Hoppe's maritime integration expertise with AVL's global leadership in emissions measurement technology, HOCEM provides dependable, high-quality emissions data you can trust.



OUR PRODUCT RANGE

Fluid & Floating

- Valve Remote Control
- Anti-Heeling
- Tank Gauging
- Flume Anti-Rolling
- Interfering Anti-Rolling
- Distance Measuring
- Draught Measurement
- Electronic Inclinometer
- Dynamic Draught and Floating Monitoring
- Floating Condition Control

Performance & Energy

- Emission Monitoring
- Energy Measurement
- Shaft Power Meter
- Fuel Measurement
- Energy Saving Solutions
- Crew Connect
- Performance Monitoring
- Data Collection and Acquisition

Fleet Services

- Spare Parts
- Technical Service
- Retrofit- And Upgrades
- MIoT Digitalization Upgrade

www.hoppe-marine.com

