



AVL M50 COMPACT GHG™ Marine Gas Analysis System

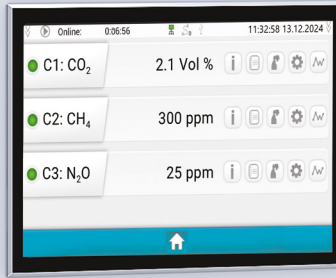
Precise Gas Monitoring in a Compact Design

The AVL M50 COMPACT GHG™ is a pre-configured analyzing system using NDIR technology for measuring carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) in the marine industry. It ensures robust operation even in most demanding environments.

SMALL AND POWERFUL

The AVL M50 COMPACT is a sophisticated gas analysis system for continuous extractive emission monitoring. It is a pre-configured analyzing system for a precise and reliable determination of CO₂ and other greenhouse gas concentrations (CH₄ and N₂O) which can be used for emission monitoring and trading applications according to MEPC.346(78). A mass calculation is achieved in conjunction with an exhaust flow measurement.

The compact wall-mounted design allows for easy operation in narrow spaces. The system can be easily operated via the integrated 7" TFT touch panel or externally via its Modbus TCP/IP interface.



Fast and comfortable analysis

The integrated analyzer module contains channels for a parallel CO₂, CH₄ and N₂O concentration measurement. The measured concentration values are visualized via a 7" touch display.



Continuous emission monitoring

The M50 Compact GHG provides real time greenhouse gas emissions instead of using alternative methods like the bunker delivery note method applying conversion factors.

SAIL ON A SAFE COURSE

Using the AVL M50 COMPACT, ships can monitor and report their CO₂ and greenhouse gas emissions based on real exhaust emission and mass flow measurements. The costs for operation and maintenance are low, as the robust measurement technology is designed for simple and fast service on board.

TECHNICAL DETAILS

Dimensions (w x d x h)	687 x 360 x 860 mm
Weight	approx. 40 kg (w/o external sampling system)
Power supply	90 – 240 VAC, 50 / 60 Hz max. 380 VA
Measurement principle	NDIR (non-dispersive infrared spectroscopy)
Measurement ranges	CO ₂ : 0 – 25 Vol. % CH ₄ : 0 – 30,000 ppm N ₂ O: 0 – 2,000 ppm



Accurate Monitoring

Accurate and reliable measurements of CO₂, CH₄ and N₂O masses, ensuring compliance with the EU Emission Trading System.



Improved Environmental Performance

Demonstrate your commitment to sustainability and environmental stewardship by effectively monitoring and reducing greenhouse gas emissions, contributing to cleaner air and healthier ecosystems.



Operational Efficiency

The system offers efficiency gains by providing automated monitoring capabilities, reducing the need for manual intervention and streamlining operational processes aboard maritime vessels.



Cost Saving

Through proactive monitoring and maintenance facilitated by the system, you can minimize the risk of costly downtime due to equipment failures or regulatory non-compliance, ultimately saving on repair and operational expenses.

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