



# Leaders in Specialty Gas Solutions



Calibration Gases for the  
Global Marine Industry



## Maritime Continuous Emissions Monitoring Systems

International and national laws and regulations stipulate the exhaust gas emission limits within the marine industry. It is the responsibility of ship owners to ensure compliance with these environmental laws.

Continuous emissions monitoring systems (CEMS) are designed to prove compliance within the limits set by MARPOL Annex VI.

CAC GAS supplies the highest quality calibration gas used to calibrate these systems. With regulations constantly becoming more strict, it is imperative that emissions monitoring systems run without costly errors. Measurement data and precision depend on the quality and reliability of not just the CEMS but also the gas to calibrate them.

Marine emissions calibration gas accredited to ISO:17025  
Marine emissions gravimetric calibration gas meeting NPL or NIST

## ISO 17025 Accredited Marine Emissions Test Kit

- Impact resistant case (62 x 42.5 x 7.5cm)
- Two 3L (600 litres) gas mixtures (SO<sub>2</sub>/CO<sub>2</sub>) for high and low calibrations
- One stainless steel, high pressure, single-stage regulator
- Transfer Tubing



Custom Gas Mixtures

Gas Control

Gas Generators

# Leaders in Specialty Gas Solutions.

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## ISO 17025 Gas Mixtures

Gas Mixtures for all stack gas analyser manufacturers/for ship exhaust testing:



- SO<sub>2</sub>/CO<sub>2</sub> (Type S1) 27 Vol. ppm SO<sub>2</sub>/ 5.50 Vol. % CO<sub>2</sub>, balance N<sub>2</sub>
- SO<sub>2</sub>/CO<sub>2</sub> (Type S2) 1800 Vol. ppm SO<sub>2</sub>/ 22.50 Vol. % CO<sub>2</sub>, balance N<sub>2</sub>
- SO<sub>2</sub>/CO<sub>2</sub> (Type S3) 90 Vol. ppm SO<sub>2</sub>/ 5.50 Vol. % CO<sub>2</sub>, balance N<sub>2</sub>
- SO<sub>2</sub>/CO<sub>2</sub> (Type S4) 450 Vol. ppm SO<sub>2</sub>/ 22.50 Vol. % CO<sub>2</sub>, balance N<sub>2</sub>
- NO/NO<sub>2</sub> (Type N1) 270 Vol. ppm NO/ 180 Vol. ppm NO<sub>2</sub>, balance N<sub>2</sub>
- NO/NO<sub>2</sub> (Type N2) 1800 Vol. ppm NO/ 450 Vol. ppm NO<sub>2</sub>, balance N<sub>2</sub>
- NO/NO<sub>2</sub> (Type N3) 1350 Vol. ppm NO/ 450 Vol. ppm NO<sub>2</sub>, balance N<sub>2</sub>

Other mixtures are available.

## Calibration Gas & Specialty Mixtures for Gas Detection

Traceable, certified and ISO17025 accredited specialty gas mixtures are available in multiple cylinder sizes.

**SO<sub>2</sub>/ CO<sub>2</sub>/ CO/ NO/ NO<sub>2</sub>/ H<sub>2</sub>S / CH<sub>4</sub>/ O<sub>2</sub>/ Ethanol**

- Calibration Gas to meet Solas XI-Reg 7
- Butane / Isobutane Mixures
- 4GAS - H<sub>2</sub>S/CO/CH<sub>4</sub>/O<sub>2</sub>

**STOCKING IN  
SINGAPORE & SYDNEY**



Custom Gas Mixtures

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Gas Generators

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