



Em sys-iS

SO₂

CO₂

Em sys[®]

Compact Laser Emissions Monitoring For Scrubber Applications

Emsys-iS utilises a unique laser based measurement principle to provide the most accurate and reliable emissions monitoring solution for scrubbing applications.

Providing the facility to expand beyond just SO₂/CO₂ monitoring, Emsys provides vessel performance data allowing optimisation of operating conditions.

Calibration Free design and virtually maintenance free operation reduces dramatically operational costs.

Emsys has been deployed on many differing scrubber types including seawater, freshwater, and hybrid. Its unique design makes it suitable for all current designs and configurations of EGCS systems.

Emsys-iS has been developed using experience gained from shipowners and Scrubber OEMs to meet the demands of ECA Compliance and scrubber feedback

Emsys-iS utilises patented Quantum Cascade Laser technology to provide highly accurate emissions data for scrubber applications.

The calibration free sensor reduces the burden on ships staff whilst ensuring you have the highest reliability monitoring technology available.

The engine room mounted system reduces installation time drastically. The only service required is a power supply (10A), this makes it ideal for retrofit applications. Each Emsys-iS enclosure has the facility to monitor up to 4 stacks.

This configuration is highly cost effective and reduces system and installation complexity.

Based on the Type Approved and market leading Emsys extractive EMS, the Emsys-iS is designed to meet the requirements of both shipowners and scrubber OEMs alike.

With GPS integration and facility to connect using comm's to the ships automation system or scrubber control panel, Emsys-iS is a one stop solution for scrubber monitoring.

Advantages

- Engine room or funnel space mounted technology (No A.C required)
- Drift free, solid state laser sensor
- Simple installation
- Small system footprint
- Low power consumption, no air required
- Low maintenance and running costs
- Calibration free
- Integrates to scrubber panel and ships automation system

Specifications

- Approximate Dimensions: Height: 800 mm (32 in.) Width: 600 mm (24 in.) Depth: 300 mm (12 in.)
- Approximate Weight: 65 kg (143 lb)
- Number of stacks: 4 per Emsys-iS enclosure. Up to 4 enclosures can be controlled from a single Data Acquisition Unit (DAU)
- SO₂: 0-120 ppm CO₂: 0-15%
- Ethernet connectively to Graphical display
- Tamperproof reports available to ensure vessel compliance

Power Requirements

Voltage Input 230 VAC, 60 Hz

Maximum Power Consumption 2,500 W (Base System)

Ambient Operating Conditions

Temperature Range..... 0 – 55 °C (32 – 131 °F)

System Measurement Characteristics

SO₂ 0-120 ppm

CO₂ 0-15%

Type Approvals - American Bureau of Shipping (ABS)

Designed to meet MEPC. 184 (59) Guidelines for Exhaust Gas Cleaning Systems - Schemes A & B - SO₂/CO₂ method

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www.wrsystems.com
Call our experts on +1 757 858 6000