



# Continuous Emission Monitoring System



# CEMS

## RKMC Co., Ltd.

Reliable | Customizing | Cost-effective

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# RKMC-2021CEMS



Continuous Emission Monitoring  
System for Marine Exhaust Gas

Type approved by

**ABS/BV/LR/CCS/KR/NK**

More than 300 ships CEMS order till 2024

**Main Components Suppliers:**

1. CO<sub>2</sub>/SO<sub>2</sub> gas analytical Unit: RKMC
2. PLC: Siemens
3. Valve/Filter/Flow meter: AIRTEK
4. Sampling pump: KNF
5. Power/Switch: Schneider
6. Touch screen: MCGs

SO<sub>2</sub>

CO<sub>2</sub>

N<sub>2</sub>O

+

NO

NO<sub>2</sub>

CH<sub>4</sub>

CO

O<sub>2</sub>

NH<sub>3</sub>





# RKMC-2021CEMS

RKMC-2021CEMS is designed to monitor the emission concentration of SO<sub>2</sub>, CO<sub>2</sub> which are contributing to local and global emission challenges, RKMC CEMS is designed for ship-owner to prove the compliance with the limits set for airborne pollution in

MARPOL 73178 Annex VI, MEPC.184(59),MEPC.340(77)

Small size and easy installation for new shipbuilding and retrofit.

Control panel(mm):H1200XL700X330

Sampling gas dryer(mm):H550XL550XW400

CEMS signal output RS-232/485,4-20mA DC

UV sensor for SO<sub>2</sub> (Range:0-200-500ppm)

IR sensor for CO<sub>2</sub> (Range: 0-25% VOL)

Self-diagnostics function

Auto-zeroing

Auto-calibration

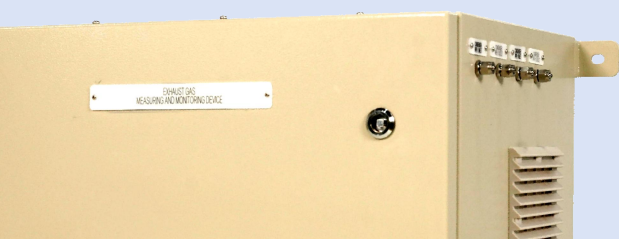
7-Inch touch screen control

Historical data storage

Other gas monitoring acceptable (Option): NO NO<sub>2</sub> CH<sub>4</sub> N<sub>2</sub>O CO O<sub>2</sub> NH<sub>3</sub>....

Internet monitoring and program update (Option)

RKMC-2021CEMS design is based on a careful selection of maritime standard components,hence ship high vibrations/salt/humidity and so on are attended to during system design Our solution uses a heated sample treatment throughout to assure measuring the true composition of the exhaust gas, which can be installed on all vessels for difference process monitoring.







## World Service Net

**R K M C always try to supply the best product  
and service to customers with considering customer's safety  
should be the first priority.**



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