

ENGINE EMISSIONS MONITORING SYSTEM

DATASHEET



DATA IN BRIEF.

MariNOx $^{\text{TM}}$ is the world's first Type Approved (LR) on-board NO_X, CO₂, SO_X & engine efficiency monitoring system providing the simplest solution for compliance with Annex VI of MARPOL, 'The NOx Technical Code' and MEPC.103(49). The system provides monitoring of exhaust gases and engine/ambient parameters to calculate NOx emissions and enables continuous optimisation of engine performance to deliver fuel savings of up to 4%, providing rapid return on investment.

- PROVEN MAJOR FUEL SAVINGS
- TOTALISED EMISSIONS REPORTING FOR GREEN CHARTERERS PROVE EMISSIONS REDUCTIONS
- FREEDOM TO OPERATE YOUR FLEET HOW YOU WANT TO ADJUST ENGINE SETTINGS & USE NON-OEM SPARE PARTS
- FUTURE PROOF FOR FUTURE EMISSIONS LEGISLATION
- REAL-TIME EMISSIONS DATA REPORTING FUNCTION VIA SECURE WEB PORTAL
- PRE-PORT/ SECA ENTRY REPORTING



SYSTEM CAPABILITIES

REPORTING CAPABILTIES	NO _X Compliant with MARPOL Annex VI Reg. 13 Instantaneous specific NO _X g/kWh Totalised mass NO _X emissions kg/tonnes (ISO 14001 reporting) Automatic monthly NO _X compliance tests during normal vessel opperations Pre-configured for Tier I,Tier II and Tier III emission limits.
	SO _X Compliant with MARPOL Annex VI Reg. 14 (4) (b) i. SO ₂ /CO ₂ ratio ii. Fuel oil sulphur content (% w/w) iii. Totalised mass SO _X emissions kg/tonnes.
	CO ₂ Instantaneous % totalised mass CO ₂ emissions kg/tonnes CO ₂ emission indexing in line with MEPO Circ. 471, e.g. g CO ₂ /tonne nm' CO/CO ₂ combustion efficiency ratio capability.
STANDARD ANALYSERS	NO _X , CO ₂
OPTIONAL ANALYSERS	SO _X , CO, O ₂ , NH ₃ , Hydrocarbons & Particulate matter.
ANCILLARY INPUTS	Engine performance parameter sensors, ambient temperature, pressure & humidity sensors, as required by 'The NO _X Technica Code (2008)'.
SECURITY	Date encryption to ensure tamperproof emissions reporting.
ENVIRONMENTAL TESTING	Certified to IACS E10 / LR ENV 2 / DNV Class A/B/BV spec Pt C, Ch 3, section 6.
TYPE APPROVAL	Lloyds Register, DNV & MCGA.
SYSTEM DIAGNOSTICS	Automated system condition monitoring with maintenance indicators.
EMISSIONS REPORTING	DATALINK™ – Windows-based user emissions reporting software, displays multiengine details and emissions values in a simple, user friendly format.
ONLINE EMISSIONS REPORTING	Utilising a secure Web portal for corporate access to individual vessel or full fleet reporting. Your secure Web access provides you with: vessel position; speed; direction data; instant emissions; cumulative emissions data; and sulphur in fuel reporting. Other data available on request.
EMISSIONS CONTROL AREA (ECA) ALERTS	Determines applicable emission limits based on geographical location, an provides an automatic alarm notification. Reports show emissions snapshot via Inmarsat 'D' by email, SMS, etc.









ENGINE PERFORMANCE

MANAGEMENT





Integration facility with your engine

performance management system to enhance engine optimisation capability.