



ENGINE EMISSIONS MONITORING SYSTEM

DATASHEET



DATA IN BRIEF.

MariNOx™ 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 NO_x Technical Code' and MEPC.103(49). The system provides monitoring of exhaust gases and engine/ambient parameters to calculate NO_x 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 CAPABILITIES	<p>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 operations Pre-configured for Tier I, Tier II and Tier III emission limits.</p> <hr/> <p>SO_x Compliant with MARPOL Annex VI Reg. 14 (4) (b) i. SO₂/CO₂ ratio ii. Fuel oil sulphur content (% w/w) iii. Totalised mass SO_x emissions kg/tonnes.</p> <hr/> <p>CO₂ Instantaneous % totalised mass CO₂ emissions kg/tonnes CO₂ emission indexing in line with MEPC Circ. 471, e.g. g CO₂/tonne nm' CO/CO₂ combustion efficiency ratio capability.</p>
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 Technical 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 multi-engine 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, and 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.



— Innovating Beyond Compliance —

www.martek-marine.com
Telephone: +44 (0) 1709 599 222
Fax: +44 (0) 1709 871 873
email: marinox@martek-marine.com



"Winner of 2008 award for Protection of Marine and Atmospheric Environment."

