DATA IN BRIEF.

MariNOx™ is the world’s first Type Approved (LR) on-board NOx, CO2, SOx & 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/ SEA ENTRY REPORTING

SYSTEM CAPABILITIES

REPORTING CAPABILITIES

NOx
Compliant with MARPOL Annex VI Reg. 13
Instantaneous specific NOx g/kWh
Totalised mass NOx emissions kg/tonnes
(ISO 14001 reporting)
Automatic monthly NOx compliance tests during normal vessel operations
Pre-configured for Tier I, Tier II and Tier III emission limits.

SOx
Compliant with MARPOL Annex VI Reg. 14 (4) (d)
1. SO2/CO2 ratio
2. Fuel oil sulphur content (% w/w)
3. Totalised mass SOx emissions kg/tonnes.

CO2
Instantaneous % totalised mass CO2 emissions kg/tonnes
CO2 emission indexing in line with MEPC Circ. 471, e.g. g CO2/kwhm3
CO2/CO2 combustion efficiency ratio capability.

STANDARD ANALYSERS
NOx, CO2

OPTIONAL ANALYSERS
SOx, CO, O2, NH3, Hydrocarbons & Particulate matter.

ANCILLARY INPUTS
Engine performance parameter sensors, ambient temperature, pressure & humidity sensors, as required by ‘The NOx 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; an provides an automatic alarm notification. Reports show emissions analogical via Inmarsat ‘D’ by email; SMS; ‘VHF.

ENGINE PERFORMANCE MANAGEMENT
Integration facility with your engine performance management system to optimise engine performance.