

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **75 160 - 09 HH**

Company **Martek Marine Limited
Manvers
Rotherham, South Yorkshire S63 5AB, UNITED KINGDOM**

Product Description **Oxygen & Pressure Monitoring System
Vapour Emission Control System**

Type **VECSAFE**

Environmental Category **C; EMC2**

Technical Data /
Range of Application **MM 2000 Control Panel
Power Supply: 110 / 230 V AC 50 / 60 Hz @ 5A
Power Consumption: 100 W (alarm condition)
Indicators: LED green Power; LED red Alarm, LED amber Fault; Display
Relay Outputs: 230 V AC @ 5A , Volt-free relay contacts
Relay 1 pre-set Common low alarm
Relay 2 pre-set Common high alarm
Relay 3 pre-set Common over-range alarms
Relay 17 pre-set Common fault alarm, SPCO relay
Relay 18 pre-set Mains fail, SPCO relay normally energized
16 relays user selectable SPCO (zone selection for any sensor)**

**MM 1000 Addressable Oxygen Sensor
MM200 Pressure Sensor
Power Supply: 10 to 30 V DC
Signal Output: 4...20 mA, 2 wire system**

Test Standard **Guidelines for the Performance of Type Approvals Part 2, Edition 2003**

Documents **Test report : TL1214 dated 06-11-2008
Documentation VECSAFE dated 20-05-2009; Specifications VECSAFE/0107/PP/1;
VECSAFE System overview NW080708J-3 A0, MM200 Sensor NW080708J-3 L0 and
MM1000 Sensor NW080708J-3 K0 dated 15-09-2009**

Remarks **None**

Valid until **2014-06-22**

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File No. **I.A.02**


Hamburg, 2009-06-23

Type Approval Symbol



Germanischer Lloyd


Marco Rinkel


Andrea Grün