

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. **59 803 - 13 HH**

Company **MARIDIS Maritime
Diagnostic & Service GmbH
Friedrich-Barnewitz-Str. 4c
18119 Rostock, GERMANY**

Product Description **Cylinder Pressure Measuring Device
Condition Monitoring System**

Type **MarPrime®
MarPrime® Ultra**

Environmental Category **C, EMC 2**

Technical Data /
Range of Application **Handheld cylinder pressure measuring device for 2 and 4 stroke engines with indicator cook with dynamical TDC correction.
- Pressure Range: 0...300 bar, accuracy 1% to fullscale output
- Speed Range: 25...2400 rpm
- Max. Numbers of Cylinders: 24
Measurements:
- Pmax./ Pcomp. /Power (ind.) /Speed
- MarPrime® Ultra additionally injection timing, valves timing, valves leakage
Interfaces: USB, RJ45 network
Software Version: V1.10

PC based Condition Monitoring System
- Cylinder Pressure Analysis
- Leakage Detection
Software Version 3.2.0.4**

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012**

Documents **Test report : Treo 205-12, dated 21.11.2012 (EMC), 234-12, dated 19.12.2012 (ENV)
Dokumentation.odt, dated 19.04.2012 (Technical documentation)
Software Specification/Documentation MarPrime Version 1.0.2**

Remarks **GL Guidelines for Machinery Condition Monitoring, Edition 2008 (GL Chapter I-1-17,
Section 2, D.) to be observed for Survey Arrangements CM.**

Valid until **2018-01-21**

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File No. **I.D.15**

Hamburg, **2013-01-24**

Type Approval Symbol



Germanischer Lloyd

W. Voß
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Circuit board MAR01:

- Connection for pressure sensor
- Connection for Ultrasonic sensor (MarPrime® Ultra)
- 3 x Indication LED
- 1 x operating button
- 1 x USB port
- 1 x LAN (10 Mbit)

Pressure Sensor HTT04

- Measuring Range: 0...300 bar
- Signal output: 4...20 mA
- Temperature Range: 50...200 °C

Ultrasonic Sensor: VS 900M

- Measuring Range: 100...900Hz
- Temperature Range: -50...100°C

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