DNV·GL

Certificate No:
**TAA000011T**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Pressure Indicator**

with type designation(s)
**MarPeak**

Issued to
**MARIDIS Maritime Diagnose & Service GmbH**
**Rostock, Germany**

is found to comply with
**DNV GL rules for classification – Ships**

## Application :

**Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.**

| | |
|---|---|
| **Temperature** | **A** |
| **Humidity** | **A** |
| **Vibration** | **B** |
| **EMC** | **not relevant** |
| **Enclosure** | **not relevant** |

Issued at **Hamburg** on **2017-02-07**

This Certificate is valid until **2022-02-06**.
DNV GL local station: **Rostock**

Approval Engineer: **Christian Kaemmer**

for **DNV GL**
Digitally Signed By: Drews, Olaf
Location: DNVGL Hamburg
Signing Date: 2017-02-15

**Olaf Drews**
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-023675-1**
Certificate No: **TAA000011T**

## Product description
Pressure Peak Indicator. Intended to measure the applied maximum gas pressure of the engine for every cylinder station. Suitable for indicating tasks on diesel engines.

### TECHNICAL DATA
MODEL MarPeak, analog-display
Nominal size: 250x170x75 mm
Design: acc. to EN 837-1
Accuracy class: 1.0 per EN 837-1
Scale ranges: 0-250 bar
Operating temperature:- 0°C to 60°C (ambient), 300°C (medium)
Working pressure: full scale value (steady), 0.9 x full scale value (fluctuating), 1.3 x full scale value (short time).
Thread: W1-1/6" standard thread

## Application
For exhaust gas of diesel and heavy fuel oil engines. The selection of the pressure gauge and the right installation is to be in accordance with the instructions of the manufacturer.

## Type Approval documentation
• Laboratory Test Report 321-16 dated: 09-01-2017
• Montageanweisung
Type approval Assessment Report dated 2017-01-18
• Technical Datasheet

## Tests carried out
Visual Inspection, Vibration test, Performance test, acc. to DNVGLClass Guideline CG-0339 Overpressure test.

## Marking of product
Each device shall bear legible and durable marking on the body or on a plate fixed securely to the body as follows:
• Manufacturer`s Mark •Pressure sensor range

## Periodical assessment
The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, components and/or materials.
The main elements of the assessment are:
• Ensure that type approved documentation is available
• Inspection of factory samples, selected at random from the production line (where practicable)
• Review of production and inspection routines, including test records from product sample tests and control routines
• Ensuring that systems, components and/or materials used comply with type approved documents and/or referenced system, component and material specifications
• Review of possible changes in design of systems, components, materials and/or performance, and make sure that such changes do not affect the type approval given
• Ensuring traceability between manufacturer's product type marking and the type approval certificate
Periodical assessment is to be performed at least every second year and at renewal of this certificate.

**END OF CERTIFICATE**