



Type Approval Certificate

Germanischer Lloyd

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. **7595609 HH**

Company **PAJ Systemtechnik
Grundtvigs Allé 163
6400 Sonderborg, DENMARK**

Product Description **Water in Oil Monitor**

Type **WIO200**

Environmental Category **D, EMC 2**

Technical Data /
Range of Application **Sensor which measures water content in lubrication oils on ship engine
Condition Monitoring Component (according to GL I-1-17, Section 2, D.2.)**

WIO Sensor system nr: A01-110-0100-00

Consists of:

- **WIO Sensor nr: A01-110-0101-00**
- **Terminal Box nr: A01-110-0102-00**
- **Sensor cables 2 pcs. Order nr: A01-110-0103-00**

The technical specification is shown on page 2.

Software Version 111197-810 Rev 1.00

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

Documents **Test report : 2009-02260 EMC, 2009-01456, 2009-01456R2LM, 2009-02373
111197-900 WIO Sensor Specifications Rev.1.00, Datasheet 111197-902 Rev.1.00
Software Questionnaire according to requirement class 3, dated 28.09.2009**

Remarks **Rules GL I-1-17 to be observed for Condition Monitoring (CM). Alarm settings have to be specified by engine manufacturer if sensor is used for CM.**

Valid until **2014-11-29**

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Type Approval Symbol



File No. **I.A.10**

Hamburg, 2009-11-30

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This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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Technical Specification:

Measuring range: 0,01 to 1,00 aw water content.
Accuracy: $\pm 0,03$ aw for the range 0...1 aw water content
Resolution: Minimum 0,01 aw water content.
Analogue output: 4 to 20 mA (galvanic isolated) 0,01 to 1 aw water content linear
Max. Load (analogue outp.) < 500Ohm
Alarm indications. Alarm indication via 2 x Alarm relays (NC).
Media for measurement: Lubrication oil: Grade SAE 30/TBN 5-10
Service temperature of media: 10 to 60 °C.
Pressure range: 0 to 10 bar

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