DNV·GL

Certificate No:
TAA00000A1

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Misc. detector

with type designation(s)
Oil Detector ORGS 11-1, ORGS 11-2

Issued to
Gestra AG
Bremen, Germany

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

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**IP65**

This Certificate is valid until **2021-02-15**.

Issued at **Hamburg** on **2016-02-16**

for **DNV GL**

DNV GL local station: **Bremerhaven**

Approval Engineer: **Dariusz Lesniewski**

Duy Nam Le
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.

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Product description

ORGS 11-1 : Oil Detector without Separator
ORGS 11-2 : Oil Detector with Separator
The oil detector consists of:
- level measuring electrodes (4x)
- transmitter with alarm unit
- separator for separation of oil and water (ORGS 11-2)

Flow rate: 100 l/h to 300 l/h
Max. media pressure: 6 bar
Max. media temperature: 110 °C
Power supply: 24/115/230 V AC
Output: 2 x c/o contacts, rating: 8 A, 230 V AC or 24 V DC
2 x alarm LEDs
Material: 1.4571

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, November 2015

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number

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, software versions, 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, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, 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