DNV·GL

Certificate No:
TAA00002V5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electronic record book

with type designation(s)
Anschütz eLog

Issued to
Raytheon Anschütz GmbH
Kiel, Schleswig-Holstein, Germany

is found to comply with
IMO Resolution MSC.302(87) Performance standards for Bridge Alert Management
IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids

Application :

The Anschütz eLog electronic record book for ships is find in compliance with ISO 21745:2019 technical and operational requirements for electronic record books (ELRB) to be used on ships.

Issued at **Hamburg** on **2020-11-23**
This Certificate is valid until **2025-11-22**.
DNV GL local station: **Hamburg CMC**

Approval Engineer: **Harald Bluhm**

for **DNV GL**

Arne Schaarmann
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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Product description

The Raytheon Anschütz "Anschütz eLog" electronic record book for ships comprises of the following equipment:

eLog gateway computer: type: 148-520.NG001

Software:

Software	Version	Description
Linux Debian	4.14	Operating system
PROG0459	E00.xx	eLog bridge connector
PROG0460	E00.xx	eLog CouchDB
PROG0461	E00.xx	eLog Web Application
PROG0462	E00.xx	eLog Web database

Additional equipment:

Power Supply: type: 6EP3332 24VDC/2.5A

Application/Limitation

The Anschütz eLog is found in compliance with SOLAS V 28 and IMO resolution A.916(22).
The final acceptance of the Anschütz eLog ELRB is subject to the decision of the Flagstate Administration under which the vessel sails.
The electronic logbook requires an external time source which delivers a time in UTC.
The Anschütz eLog requires a position fix from AIS to work.

Type approval documentation:

TTD02-11-20 List of test reports for Anschütz eLog
10000000584 Electronic Logbook (eLog) Installation Instruction
PROG0461 E00.xx Operator Manual is part of the software

Tests carried out

ISO 21745(2019),
IEC61162-1(2016),
IEC61162-2(1998),
IEC61162-450(2018),
IEC60945(2002), incl.corr.1(2008),
IEC 62288 (2014),
IEC 62923-1(2018),
IEC 62923-2(2018).

Marking of product

The products to be marked with:
- Manufacturer name
- Type designation
- Serial number
- Compass safe distance (if applicable)

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 after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE