



Certificate no.:
TAA00003KE

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

that the Speed log (SDME)

with type designation(s)
SAL R100 Speed Log System

issued to

SAL Navigation AB
Hägersten, Sweden

is found to comply with

DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security [2.2] Exclusion based on negligible risk

Application:

This type approval covers the criteria for exclusion from the mandatory application of Pt.6 Ch.5 Sec.21 Cyber security, subject to conditions stated in this certificate.

Issued at **Høvik** on **2025-03-31**

This Certificate is valid until **2027-03-30**.

for **DNV**

DNV local unit: **AC Europe Digital Ship Systems**

Approval Engineer: **Mirza Muqadam Baig**

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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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.

Product description

This type approval design certificate is issued to state conformance with DNV-RU-SHIP Pt.6 Ch.5 Sec.21 [2.2], indicating that a design assessment is performed to confirm that the criteria for exclusion from mandatory application of cyber security requirements in DNV-RU-SHIP Pt.6 Ch.5 Sec.21 [4], are met.

The following speed log modules are covered by this certificate:

<i>Module Name</i>	<i>Module ID</i>	<i>Function</i>	<i>Software ID</i>
SAL SD4 Speed Log Displays	80.12.02, 80.12.03, 80.12.04	User Interface	704021
SAL R1a ELC Cabinet	80.11.01	Signal Processor	5400130

Application/Limitation

The following conditions shall be met when the R100 Speed Log System is installed on board:

- The R100 Speed Log System shall be installed in a restricted or controlled area.
- The R100 Speed Log System shall only be connected to components and systems meeting the requirements in DNV-RU-SHIP Pt.6 Ch.5 Sec.21.

For vessels where the Cyber secure notation is applicable, the above listed conditions shall be verified on board

Marking of product

The products to be marked with:

- maker
- type designation
- serial number.