DNV·GL

Certificate No:
TAA00001HR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electronic Chart and Display System (ECDIS)

with type designation(s)
ECDISPILOT Platinum

Issued to
Wärtsilä SAM Electronics GmbH
Hamburg, Germany

is found to comply with
IMO Resolution MSC.232(82) Performance standards for Electronic Chart Display and Information Systems (ECDIS)

Application :

The product approved by this certificate fulfills the requirements for electronic chart display and information systems (ECDIS) according to MSC.232(82), Appendix 6 as back-up for ECDIS of NACOS-xx5 family, i.e. for type CHARTPILOT 1100 and MULTIPILOT 1100.

Issued at **Hamburg** on **2018-12-11**
This Certificate is valid until **2020-12-10**.
DNV GL local station: **Hamburg**

Approval Engineer: **Jörg Rebel**

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.

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Product description

The ECDISPILOT Platinum consists of the following equipment necessary for functioning:

Main processing unit: Display Electronics Platinum GE 3068 Axxx
See Annex to EC type examination (Module B) certificate 42 436-16 HH

Software Version: 2.1.x

Display units:
See Annex to EC type examination (Module B) certificate 42 436-16 HH

Operator units:
BD 3030, or
see Annex to EC type examination (Module B) certificate 42 436-16 HH

Sensor interface: DCU 2010, or
DPU/SIO 2010, or
DPU 2020, or
see Annex to EC type examination (Module B) certificate 42 436-16 HH

Network switch:
see Annex to EC type examination (Module B) certificate 42 436-16 HH

Additional components:
see Annex to EC type examination (Module B) certificate 42 436-16 HH

Application/Limitation

In order to avoid manual re-initialization of the system for the case of change of the power source of any interruption of power supply for a period of up to 45 seconds, the power supply of the ECDISPILOT Platinum (ECDIS) system and the components necessary for its normal functioning has to be maintained by an uninterruptable power supply unit (UPS).

According to IMO SN.1/Circ.MSC.1/Circ.1503: ECDIS that is not updated for the latest version of IHO Standards may not meet the chart carriage requirements as set out in SOLAS regulation V/19.2.1.4.

Type Examination documentation

DNV GL No	Document ID	Rev.	Description
1	390008841	01 (2018-11)	Report: ECDISPILOT Platinum as NACOS Back-up
2	390008810	29 (2018-12)	Manual: ECDISPILOT Platinum - Operating Instructions SW Versions 2.x

Tests carried out

Applicable tests according to IEC 61174 Ed.2 (2001)

Marking of product

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

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 at renewal of this certificate.

END OF CERTIFICATE