



Certificate no.:
TAA00003HW

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cyber security solution

with type designation(s)

NautoPilot 5000 NX, PilotStar NX, Standard 22 NX, Standard 22 NX M and Standard 30 MF

issued to

Anschütz GmbH

Kiel, Schleswig-Holstein, Germany

is found to comply with

DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security

Application:

This type approval covers security capabilities for DNV security profile SP1 (Ed. July 2025), including IACS UR E27. See Page 2 for further applications/limitations.

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

Issued at **Hamburg** on **2026-01-29**

This Certificate is valid until **2028-01-28**.

for **DNV**

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Jörg Rebel**

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 USD 300 000.

Product description

The autopilot product family consists of the following programmable electronic devices as defined in the individual certificates MEDB00003BV and MEDB00002TS (in its latest revision):

- Autopilot NautoPilot 5000 NX series type 102-890.NG010 and 102-890.NG011 (for remote operation)
- Autopilot Pilotstar NX type 102-820.NG001

Note: For cyber security of NAUTOSTEER Advanced Steering Gear Control AS system see TAA00000WT (in its latest revision).

The gyro compass product family consists of the following programmable electronic devices as defined in the individual certificate MEDB000029J (in its latest revision):

- Standard 22 NX Gyro Compass type 110-244
- Standard 22 NX M Gyro Compass type 110-246
- Standard 30 MF Gyro Compass type 110-700
- Distribution Unit type 138-118
- Operator Unit type 130-626
- Repeater Compass(es) type 133-407 and/or 133-560 and/or 133-811
- CAN-Bus Gateway AS type 138-129 (see TAA00000WT in its latest revision)

Software:

No.	Designation	Version no.
NautoPilot 5000 NX series		
1	Application software	102-890.P0010 E00.xx with xx ≥ 15
2	Operating system	102-890.P0010 E01.xx with xx ≥ 02
PilotStar NX		
3	Application software	102-820.P0001 E00.xx with xx ≥ 35
4	Operating system	102-820.P0001 E01.xx with xx ≥ 02
Standard 22 NX		
5	Application software Sensor PCB	110-244.P0001 E00.xx with xx ≥ 32
6	Application software Outersphere PCB	110-244.P0002 E00.xx with xx ≥ 02
7	Operating system Sensor PCB	110-244.P0003 E00.xx with xx ≥ 30
Standard 22 NX M		
8	Application software Sensor PCB	110-246.P0001 E00.xx with xx ≥ 32
9	Application software Outersphere PCB	110-246.P0002 E00.xx with xx ≥ 02
10	Operating system Sensor PCB	110-246.P0003 E00.xx with xx ≥ 30
Standard 30 MF		
11	Application software	110-700.P0001 E01.xx with xx ≥ 32
12	Operating system	110-700.P0002 E01.xx with xx ≥ 30
Operator Unit Gyro Compass		
13	Application software	130-626.P0001 E00.xx with xx ≥ 22
14	Application software	130-626.P0002 E00.xx with xx ≥ 22
15	Application software	130-626.P0002 E01.xx with xx ≥ 22
Distribution Unit		
16	Application software	138-118.P0005 E01.xx with xx ≥ 10
17	Application software	138-118.P0006 E00.xx with xx ≥ 07
18	Application software	138-118.P0007 E00.xx with xx ≥ 01
CAN-Bus Gateway		
19	Application software	138-129.P0001 E00.xx with xx ≥ 01
20	Application software Lantronix XPort-05	≥ 7.0.0.4
Repeater Compasses		
21	Application software	133-407.P0003 E00.xx with xx ≥ 02
22	Application software	133-560.P0004 E00.xx with xx ≥ 04
23	Application software	133-811.P0008 E01.xx with xx ≥ 01

Approval conditions

When multiple devices are delivered as an interconnected system to a vessel with class notation Cyber secure(Essential), the system shall be delivered with a vessel-specific product certificate (PC). The following verification requirements apply as per DNV-RU-SHIP Pt.6 Ch.5 Sec.21:

- a) It shall be demonstrated that the architecture of each delivery is documented in a project-specific system topology F030 and that this is consistent with type approved documents, see "Type Approval documentation" [DNV Nos. 1 and 2, Sec.1.1].
- b) It shall be demonstrated that the delivered hardware and software is documented in a vessel-specific asset inventory (F071) and that this is consistent with the type approved documents, see "Type Approval documentation" [DNV Nos. 1 and 2, Ch.1, and DNV Nos. 3 to 12].
- c) It shall be demonstrated by declaration or test report(s) (Z261) that each device has been configured and hardened as per type approved configuration guideline F141 for each product, see "Type Approval documentation" [DNV Nos. 16 to 20].

Application/Limitation

The equipment listed under "Product description" are to be installed according to manufacturer's instructions. The equipment shall be located in areas on board to which physical access can be controlled.

The system complies with the requirements for the DNV Class notation Cyber secure(Essential) as defined in DNV-RU-SHIP Pt.6 Ch.5 Sec.21, when installed in a separate security zone with border protection (e.g. a 460-Gateway).

Type Approval documentation

Tests carried out

- Security testing: according to approved test specification, see type approval documents [DNV Nos. 13 to 15, see Annexes]

Marking of product

Marking is to be in accordance with requirements in Marine Equipment Directive (MED) 2014/90/EU and in Marine Equipment Regulations 2019 No. 470. For details see individual MED-B certificates, MER-B certificates and type approval certificates referred to in this Certificate at <https://approvalfinder.dnv.com/>.

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

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE