CERTIFICATE OF CONFORMITY – EC (MODULE F)

Certificate no.:
MEDF000045J
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Track control system (working at ship’s speed from minimum manoeuvring speed up to 30 knots)

with type designation and serial/batch number
HiNAS Control Standard; MS25-0033(HMD 2916)

issued to
Avikus Co., Ltd.
Seoul, Korea, Republic of

is, by product verification in accordance with Module F in the Directive, found to comply with:
Regulation **(EU) 2025/1533**, Item no. **MED/4.33**
EC Type-Examination Certificate, no. **MEDB0000BWN Revision 0**

(Manufacturers authorised representative)
Movena GmbH
Bremen, Reeder-Bischoff-Str. 65, D-28757, Germany

USCG Approval no.: 165.112/EC0575/MEDB0000BWN
DNV Assessment Report - Fabrication, dated: **2025-12-23**

Issued on **2026-01-04**

DNV local unit:
Seoul, CMC Korea

Approval Engineer:
Roger Lauritsen

Notified Body
no.: **0575**

for **DNV AS**

Christine Mydlak-Röder
Head of Notified Body

0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

NORWEGIAN ACCREDITATION PROD 019

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate remains valid unless suspended, withdrawn, recalled or cancelled, provided this equipment is not modified without the acceptance of the notified body named herein. This certificate authorises the manufacturer to affix the “Mark of Conformity” (wheelmark) to the product described herein.

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.

Appendix: Other

DNV

APPENDIX
Other

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HiNAS Control Standard, MS25-0033 consists of following components:

Software	Version 1.4.4
Operative system	Ubuntu 22.04

HW component	***Type Designation***	***Maker***	***Quantity***	***S/N***
Server	Optiplex XE4 Tower with damping kit TVK-XE4-TH	Tetradyne	2	1B2CK54 D4MYK54
Client	Optiplex XE4 Tower with damping kit TVK-XE4-TH		2	GN7FK54 HN7FK54
Monitor	TIMX-W270	Tetradyne	2	TM250714-014 TM250714-016
Keyboard with trackball	RKTE85B2448-W-MC1	NSI	2	2025.39630.014 2025.40559.013
Serial to Ethernet	Nport-5450i	Moxa	2	TBDGE1037835 TBDGE1037841
Network switch	EDS-G508E	Moxa	2	TBDJD1006240 TBDJD1006262
Firewall	FGR-60F	Fortinet	1	LNSBEJAJBB
Selector switch	MPH 731	Yokogawa	1	0998
Selector switch dimmer	MKD002	Yokogawa	1	11597
UPS	9PX1500iRTM	Eaton	1	GA40P27062
Camera unit , incl. EO cameras and IR cameras	HiNAS Navigation	Avikus	1	SC0004-NCH01-25050
Junction box, incl. Single Board Computer			1	SC0005-NJB01-25050
Heading Control System	PR-9000 (HCS-9000-A) (SW version : HCCPU 2.00 , HCIFU 2.50, ADNCT2 1.12)	Tokyo Keiki	1	7315
Remote control system	AutoChief 600 (SW version : 816.124)	Kongsberg Maritime	1	24445144