CERTIFICAT ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ 認證證書 ◆ CERTIFICATE ◆ ZERTIFIKAT

DANAK
PROD Reg.No. 7035
Member of EA MLA

TÜV SÜD
Danmark

Marine Equipment Directive
EC Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	**(EU)2024/1975**
Certificate Holder and Manufacturer	**Japan Radio Co., Ltd.** **4-10-1, Nakano** **Nakano Central Park East 3F** **Nakano-ku** **Tokyo 164-0001** **Japan**
EC Representative	**JRC Dublin** **77 Camden Street Lower** **St. Kevin's** **Dublin 2** **DO2 XE80** **Ireland**
Product(s)	**JLR-41**
Product Sector	**Navigation Equipment**
Product Type	**MED/4.63 GNSS Equipment (GPS)**

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 16 December 2024 (Andy Little) Expiry Date: 15 December 2029

This certificate has been issued in accordance with the TÜV SÜD Testing, Certification Validation and Verification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com

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Issued by TÜV SÜD DANMARK ApS under document number: DK-MED000167 Issue 01

TÜV®

1 Equipment Description

Marine GNSS Compass System

1.1 Models

Model
JLR-41

1.1.1 System Components

Model	Description
JLR-4101 Note 1	Sensor
NWZ-1680	Display
CFQ-7248	Cable for between sensor and display
CFQ-5770A	Power cable
CFQ-5771B	Serial cable
CFQ-7540	LAN cable

1.1.2 Optional Components

Model	Description
NBG-320, NBD-577C, NBD-904	AC Power Supply
NKG-94, NKG-104, DPU-414 or RP-D10	Printer
NBG-980	Powe Supply for RP-D10
NCZ-777, NCZ-1663 or NCZ-1537B	Select Switch
NQE-7720	Junction Box
NQA-4251A or NQA-4351	Output buffer
CQD-10	Junction Box

1.2 Software Note 2

Identity	Description
JLR-4101 Sensor unit	Processor R35.00
	GNSS Core RM7.00
NWZ-1680 Display Unit	R57.00

2 Specified Requirements

2.1 Implementing Regulation (EU)2024/1975 MED/4.63 Row 3 of 3 Note 3 & 4

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. V/18 SOLAS 74 Reg. X/3 IMO Res.MSC.36(63)-(1994 HSC Code) 13 IMO Res.MSC.97(73)-(2000 HSC Code) 13	SOLAS 74 Reg. V/19 IMO Res. A.694(17) IMO Res. MSC.36(63)-(1994 HSC Code) 13 IMO Res. MSC.97(73)-(2000 HSC Code) 13 IMO Res. MSC.191(79) IMO Res. MSC.302(87) IMO Res. MSC.112(73)
Assessed Testing Standards	
IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	IEC 61108-1 Ed. 2.0: 2003
IEC 61162-1:2016	IEC 62288 Ed. 3.0:2021
IEC 61162-2 Ed.1.0:1998-09	IEC 62923-1:2018
IEC 61162-450:2018	IEC 62923-2:2018

3 Technical Documentation

3.1 Declaration of Conformity

MED-DoC-JLR-41_GPS 2024-1975	Modified	2024-10-30

3.2 User Guide

JLR-41/JLR-4101/NWZ-1680 GNSS Compass Installation Manual (P00011570) Edition 1	Modified	2024-11-07
JLR-41/JLR-4101/NWZ-1680 GNSS Compass Instruction Manual (P00011567) Edition 1	Modified	2024-11-07

3.3 Test Reports

3.3.1 IEC 60945:2002 incl. IEC 60945 Corr. 1:2008

NA17ZZ0821A	Dated	2017-08-23
NA15AS0320A Rev.2	Dated	2015-04-14
YN0506009-1	Issued	2005-07-15
EMC12257	Issued	2013-01-07
RM614104/01 Issue 1	Issued	2005-06-24
RM611325-01 Issue 2	Issued	2004-04-14
75904457 Rep 02 Iss 2	Issued	2009-01-30
NA14ZZ0311C	Dated	2014-03-12
EMC18077	Issued	2018-06-21
ENV18013	Issued	2018-06-28
JRCSC120309A	Dated	2012-03-11
Corrosion Statement	Dated	2013-12-16
EMC18018	Dated	2018-03-27
SAL 17195-AT	Dated	2017-07-12
EMC15033	Dated	2015-03-18
24-081 (E)	Dated	2024-05-30
PRINTER_NKG-94_TEST REPORT	Dated	2011-06-20
Z071C-10432	Dated	2011-02-11
EMC-1E24090-1	Dated	2024-06-13
ENV-8E24016-1	Dated	2024-06-19

3.3.2 IEC 61108-1 Ed. 2.0: 2003

BSH/454.GNSS/003/00015#00005	Dated	2024-10-07

3.3.3 IEC 61162-1:2016 & IEC 61162-2 Ed.1.0:1998-09

75962054-01 Issue 01	Dated	2024-11-13
75962054-02 Issue 02	Dated	2024-11-28

3.3.4 IEC 61162-450:2018

75962054-03 Issue 02	Dated	2024-11-28

3.3.5 IEC 62288 Ed. 3.0:2021

75962054-05 Issue 02	Dated	2024-11-13
50033893 003	Dated	2024-05-07

3.3.6 IEC 62923-1:2018 & IEC 62923-2:2018

75962054-06 Issue 03	Dated	2024-11-28

3.4 Build Status

3.4.1 Hardware

Parts List_JLR4101.xlsx	Modified	2024-06-26
PartsList_NWZ1680.xlsx	Modified	2024-06-26

3.5 Notes

Note 1 The JLR-4101 GNSS Sensor is capable of multi-GNSS operation. This type approval is based on GPS operation. The use of additional constellations has not been assessed however multi-GNSS operation will enhance the measurement accuracy.

Note 2 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the Testing, Certification, Validation and Verification Regulation.

Note 3 The Route Display and Plotting functions of the JLR-41 are outside of the scope of this type approval.

Note 4 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function type P.

4 U.S. Coast Guard Number

This product has been assigned U.S. Coast Guard Module B number

165.130/EC2443

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the “Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment”, Decision No. 1/2023 signed May 26th, 2023.

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5 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

The Mark of Conformity may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Date: 16/12/2024

Signature: 

(Andy Little)

On behalf of TÜV SÜD DANMARK ApS