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)2020/1170**
Certificate Holder and Manufacturer	**Japan Radio Co., Ltd. Nakano Central Park East 4-10-1, Nakano, Nakano-ku Tokyo, 164-0001 Japan**
EC Representative	**JRC Dublin 77 Camden Street Lower St Kevin's Dublin 2 DO2 XE80 Ireland**
Product(s)	**JLN-720**
Product Sector	**Navigation Equipment**
Product Type	**MED /4.7 Speed and distance measuring equipment (SDME)**

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

T.J. Twynam

Valid from: 01 February 2021 (Tom Twynam) Expiry Date: 31 January 2026

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification 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@TUV-SUD.co.uk

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TÜV®

A4 / 07.17

1 Equipment Description

Speed and Distance Measuring Equipment based on GNSS satellite signals, capable of indicating and transmitting Ground Track Heading and Transverse ships speed.

1.1 Models

Model
JLN-720

1.1.1 System Components

Model	Description
NWZ-510SDG	Display Unit
NQA-7010	Distribution processor
NNN-21	GPS Compass Sensor Unit
CFQ-7248	Data cable
CFS-5680	Display communication cable

1.1.2 Optional Components

Model	Description
NWW-61T	Wing display
NWZ-650SDR & NWZ-840SDR	Remote Display (Colour LCD)
NWZ-4610	Remote Display (Monochrome LCD)
NQE-7720	Junction Box

1.2 Software[Note 1]

Identity	Description
R01.01	Processor Circuit (CDC-7010)
R00.01	Serial LAN Convertor (CDF-700)
R34.01	GPS Sensor (NNN-21)
V1.027	NWZ-510SDG
V1.026	NWZ-650SDR
V1.026	NWZ-840SDR

2 Assessed Requirements

2.1 Implementing Regulation (EU)2020/1170

2.2 Compliance Requirements for MED/4.7[Note 2]

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)
IMO Res MSC.96(72)*	IEC 61023 (2007)	Maritime navigation and radiocommunication equipment and systems — Marine speed and distance measuring equipment (SDME)
IMO Res. MSC.191(79) IMO Res. MSC.302(87)	IEC 62288 (2014)	Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays
	IEC 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
*Note: IMO Res.A824(19) is not applicable to new installations, IMO Res.MSC.96(72) applies to equipment installed on or after 1 July 2002.		

3 Technical Documentation

3.1 Declaration of Conformity

MED-DoC-JLN-720 DK	Modified	2021-01-19

3.2 User Guide

JLN-720 Instruction Manual 7ZPNA3206 Edition 2	Modified	2019-07-18
JLN-720 Installation Manual 7ZPNA3606	Dated	2015-07-17

3.3 Test Reports

3.3.1 IEC 61023 (2007)

75931114 Report 02 Issue 1	Dated	2015-09-22
75922675 Report 01	Dated	2014-12-20
WM-000000233	Dated	2015-07-31
QINETIQ/TEG/TECS/TSTR1000224	Dated	2011-02-25

3.3.2 IEC 60945 (2002) inc. Corr.1

75931114 Report 01 Issue 1	Issued	2015-09-21
EMC15147	Issued	2015-07-30
EMC15182	Issued	2015-07-30
15-197(E)	Issued	2015-07-28
Summary of Test Results	Dated	2015-07-14
Test Report for NWZ-650SDR & NWZ-840SDR	Dated	2015-11-06
YN-0702007-1	Issued	2007-05-16
9505 333 644XX 001	Issued	2015-04-30
9505 333 645XX 001	Issued	2015-04-30
9505 333 650XX 001	Issued	2015-04-30
9505 333 651XX 001	Issued	2015-04-30
9505 333 652XX 001	Issued	2015-04-30
9505 333 653XX 001	Issued	2015-04-30
Corrosion Test Report	Dated	2015-12-22
75901288 Report 04 Issue 14	Issued	2007-07-04

3.3.3 IEC 62288 (2014)

75931114 Report 01 Issue 1	Issued	2015-09-21
50033893 001	Issued	2015-09-25
NA13ZZ0208A	Dated	2013-02-12
NA12ZZ1012A	Dated	2012-10-12
WM-000000234	Issued	2015-07-31

3.3.4 IEC 61162-1 (2016)

75931114 Report 02 Issue 1	Issued	2015-09-22
NA19AS0711A	Dated	2019-07-12
NA19AS0716B	Dated	2019-07-18

3.4 Build Status

3.4.1 Hardware

Circuit Diagram:

ED00-NQA-7010, 2015-03-25	Dated	2015-03-25
ED00-CQD-7010, 2015-06-11	Dated	2015-06-11
ED00-CDF-700, 2015-03-06	Dated	2015-03-06
ED00-CBD-7000, 2015-03-12	Dated	2015-03-12
ED00-CDC-7010, 2015-03-05	Dated	2015-03-05

3.5 Notes

Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

Note 2 (EU)2020/1170 gives a last placing on board date of 29/8/2021 for equipment approved against the test standards listed above. See Conditions of Validity.

Note 3 The JLN-720 Satellite Log measures speed and distance over the ground.

Note 4 The JLN-720 Satellite Log outputs VBW, VLW and VTG sentence.

4 U.S. Coast Guard Number

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

165.105/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” signed February 18th, 2019

5 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved 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.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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 Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: T. J. Twynam Date: 01/02/2021

(Tom Twynam)

On behalf of TÜV SÜD DANMARK ApS