

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ CERTIFICADO ◆ CERTIFICAT



Notified body authorised by the MCA



Marine Equipment Directive EC Type Examination Module B Certificate

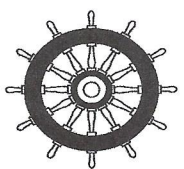
This is to certify that TUV SUD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2017/306
Certificate Holder and Manufacturer	Japan Radio Co., Ltd 21-11, Mure 6-Chome Mitaka-Shi Tokyo 181-0002 Japan
EC Representative	JRC Newdigate The Garden Office Dean House Farm Ind., Estate Church Road, Newdigate United Kingdom, RH5 5DL
Product(s)	JLN-740A, JLN-741A JLN-740N, JLN-741N
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.

Valid from: 22 November 2017 Signature: *T. J. Lygram* Expiry Date: 21 November 2022

This certificate has been issued in accordance with the Certification Regulations of TUV SUD BABT (Notified Body Number 0168) 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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Issued by TUV SUD BABT under document number BABT-MED000115 Issue 01

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Description of Equipment

Doppler Log System

Model: JLN-740A, JLN-740N, JLN-741A, JLN-741N

System Components.	Description	JLN-740A	JLN-740N	JLN-741A	JLN-741N
NKF-547	Transducer	X	X	X	X
NJC-70S	Signal processor	X	X	X	X
NQA-7040	Distribution processor	X	X	-	-
NWZ-510SDW	5-inch color display	X	-	X	-
NWZ-4640	4.5-inch monochrome display	-	X	-	X

Optional Components:

NWZ-640SDR	6.5-inch Remote Display
NWZ-840SDR	8.4-inch Remote Display
NKF-531E	Transducer
CGC-300B	External Buzzer

Software:^{Note 1}

NQA-7040	R 01.00
NWZ-4640	V74.01
NWZ-510SDW	Ver 1.001
NJC-70S	CDF-7400 (M3) R01.00
	CDC-7400 (A8) R01.00
	FPGA R01.00

Compliance Matrix For (EU)2017/306 Item MED/4.7

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 (2010)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-450 (2011) + A1(2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

*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.

Relevant Technical Documentation

Declaration of Conformity: JLN-740+741 DRAFT DoC, 2017-09-28

User Guide: JLN-740A/740N JLN-741A/741N DOPPLER LOG
Instruction Manual, 2017-07-25
JLN-740A/740N JLN-741A/741N DOPPLER LOG
Installation Manual, 2017-07-26

Test report numbers:

IEC 60945:2002 (inc Corr.1)	75936829 Report 01 Issue 1, 2017-10-11	9505 333 644XX 001, 2015-04-30
	EMC16147, 2017-01-11	9505 333 650XX 001, 2015-04-30
	RM613089/01 Issue 1, 2014-10-28	9505 333 652XX 001, 2015-04-30
	YN0407015-1, 2004-10-18	ENV16023, 2016-10-24
	IPS 2A12020-1, 2012-08-23	ENV16024, 2016-11-16
	Corrosion Test Report, 2015-12-22	75936829 Report 01 Issue 1, 2017-10-11
	AA050MG03-TI, 2014-07-04	16-395(E), 2016-12-01
	2A12020-2, 2012-08-23	RM615529-01 Issue 1, 2006-12-13
IEC 61023:2007	WM-000000615, 2016-11-21	WM-000000614, 2016-11-21
	75936829 SOT 03 Issue 1, 2017-07-20	75936829 SOT 02 Issue 1, 2017-07-20
	WM-000000686, 2017-04-14	WM-000000687, 2017-04-14
IEC 62288:2014	75936829 Report 01 Issue 1, 2017-10-11	50033893 001, 2015-09-25
IEC 61162 Series	75936829 Report 04 Issue 1, 2017-09-14	NA17AS1110A, 2017-11-10

Approved Hardware: Parts List: CQD-7040.xls, 2016-10-21
CBD-7400.xls, 2016-10-21
CDC-7400.xls, 2016-10-21
CDF-7400.xls, 2016-10-21
CMN-7400.xls, 2016-10-21

NOTES:-

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

U.S. Coast Guard Number :

This product has been assigned U.S. Coast Guard Module B number
165.105/EC0168

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 27th, 2004

Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module B Certificate relates to Issue 1 of the Certificate.

This certificate will not 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 B A B T or a person appointed by TÜV SÜD B A B T to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on board 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.

Signed:..... on behalf of TÜV SÜD B A B T	Date:.....
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T. J. Turpin

22nd November 2017