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

Maritime & Coastguard Agency

Notified body authorised by the MCA

TÜV SÜD BABT

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)2018/773**
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 Newdigate The Garden Office Dean House Farm Ind., Estate Church Road, Newdigate United Kingdom, RH5 5DL**
Product(s)	**JHS-800S**
Product Sector	**Radiocommunications Equipment**
Product Type	**MED/5.1 VHF Radio capable of transmitting and receiving DSC and Radiotelephony MED/5.2 VHF DSC Watch-keeping Receiver**

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

Valid from: 27 February 2019 (Tom Twynam) Expiry Date: 20 November 2023

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

0168

Issued by TUV SUD BABT under document number BABT-MED000124 Issue 02

TÜV SÜD BABT • TÜV SÜD Group • Octagon House • Concorde Way • Fareham • Hampshire • PO15 5RL • Unted Kingdom

TÜV®

1 Equipment Description

VHF marine radiotelephone with DSC watch-keeping receiver

1.1 Models

1.1.1 System Components

Model	Description
JHS-800S Note 1	Marine VHF Radiotelephone
NQW-980	Handset

1.1.2 Optional Components

Model	Description
NBD-965	AC/DC Power supply
NCM-980	VHF Controller
BTR-155Note 2&3	Wireless Speaker Microphone
NKG-980	Printer
RP-D10 & NBG-980	Printer with Power Supply Unit

1.2 Software Note 4

Identity	Description
Version 1.01	JHS-800S

2 Assessed Requirements

2.1 Implementing Regulation (EU)2018/773

2.2 Compliance Requirements for MED/5.1 and MED/5.2 Note 5

IMO Resolutions	International Testing Standards	
IMO Res A.385(X) IMO Res.A.524(13) IMO Res. A.803(19) IMO MSC/Circ.862 IMO MSC.1/Circ.1460	ETSI EN 300 338-1 V1.3.1 (2010-02)	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 1: Common requirements
	ETSI EN 300 338-2 V1.3.1 (2010-02)	Part 2: Class A/B DSC
	ETSI EN 301 925 V1.4.1 (2013-05)	Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Technical characteristics and methods of measurement
	ETSI EN 301 033 V1.4.1 (2013-09)	Technical characteristics and methods of measurement for shipborne watchkeeping receivers for reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and VHF bands
IMO Res.A.694(17)	IEC 60945 (2002) inc Corr.1 (2008)	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)
	IEC 61162-1 (2010)	Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-2 (1998)	Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
	IEC 61162-450 (2011) + A1(2016)	Digital interfaces Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

3 Technical Documentation

3.1 Declaration of Conformity

MEDMk2-DRAFT_DoC_v4_JHS-800S	Dated	2018-09-18

3.2 User Guide

JHS-800S Marine VHF Radiotelephone Instruction Manual, 7ZPJD0714	Modified	2019-02-01
JHS-800S Marine VHF Radiotelephone Installation Manual, 7ZPJD0733	Modified	2019-01-24
JHS-800S Marine VHF Radiotelephone Service Manual, 7ZPJD0735	Dated	2018-01-26

3.3 Test Reports

3.3.1 ETSI EN 300 338-1 V1.3.1 (2010-02)

75940907 Report 01 Issue 1	Issued	2018-09-14

3.3.2 ETSI EN 300 338-2 V1.3.1 (2010-02)

75940907 Report 02 Issue 1	Issued	2018-09-14

3.3.3 ETSI EN 301 925 V1.4.1 (2013-05)

75940907 Report 04 Issue 2	Issued	2018-10-10
JPD-TR-18127-0	Issued	2018-06-26

3.3.4 ETSI EN 301 033 V1.4.1 (2013-09)

75940907 Report 05 Issue 1	Issued	2018-09-14

3.3.5 IEC 60945 (2002) inc Corr.1 (2008)

75940907 Report 03 Issue 1	Issued	2018-10-03
JPX-TR-17227-0, 2017-11-16	Issued	2017-11-16
JPX-TR-18254-0, 2018-09-13	Issued	2018-09-13
ER-AK-1401 v.02, 2018-07-11	Issued	2018-07-11
WR-000003618 v.02	Dated	2018-07-17
WR-000003619 v.02	Issued	2018-07-17
ENV18014	Issued	2018-06-28
ENV18015	Issued	2018-06-28
ENV18016	Issued	2018-06-28
ENV18017	Issued	2018-06-28
ENV18018	Issued	2018-06-28
JD18X09B	Modified	2018-10-10
17-334 (E)	Issued	2017-11-09
ENV18013	Issued	2018-06-28
18-107(E)	Issued	2018-06-13
18-159 (E)	Issued	2018-07-04
EMC18077	Issued	2018-06-21

3.3.6 IEC 61162-1 (2010)

75940907 Report 06 Issue 1	Issued	2018-09-13

3.3.7 IEC 61162-2 (1998)

75940907 Report 07 Issue 1	Issued	2018-09-13

3.3.8 IEC 61162-450 (2011) + A1(2016)

WR-000003667 Ver.02	Issued	2018-09-18

3.3.9 Additional Functionality

JPX-TR-17279-0	Issued	2017-11-16
17A0255R-RF-RFCEP01V00	Issued	2017-12-04
17A0254R-RF-RFCEP01V00	Issued	2017-12-01

3.4 Build Status

ED00-JHS-800S	Dated	2016-09-20
NBD-965 PS3542	Issued	2018-06-22
ED00-NCM-980	Dated	2017-10-10
ED01-NKG-980	Dated	2017-09-20
NQW980_Circuit Diagram r2	Dated	2017-11-01

3.5 Notes

Note 1 The JHS-800S operates with a 25kHz channel spacing only.

Note 2 The JHS-800S uses Bluetooth technology to communicate with the BTR-155 Wireless Operation of the BTR-155 Wireless Speaker Microphone. This additional functionality has been assessed during testing against IEC 60945 in addition to the review of regulatory documentation relating to Bluetooth requirements under the Radio Equipment Directive (RED), 2014/53/EU. This certificate does not relate to RED Type Examination.

Note 3 Operation of the BTR-155 Wireless Speaker Microphone was tested over a temperature range of -10°C to +60°C.

Note 4 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the Test and Certification Regulations of TÜV SÜD BABT.

Note 5 (EU)2018/773 gives a last placing on board date of 01/02/2020 for equipment approved against the test standards listed above. See Conditions of Validity.

4 Conditions of Validity

This issue of the Annex, to the referenced Marine Equipment Module B certificate, relates to issue 02 of the certificate.

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 TUV SUD BABT or a person appointed by TUV SUD BABT 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 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. Twynam Date: 27th February 2019

Print Name: Tom Twynam

On behalf of TUV SUD BABT