



Marine Equipment Directive Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive 96/98/EC as amended by Commission Directive 2011/75/EU and that the equipment of

Japan Radio Co., Ltd

of
1-1, Shimorenjaku 5-Chome
Mitaka-Shi
Tokyo 181-8510
Japan

known as

JLN-550

conforms to the relevant requirements for:

Annex A.1/4.7 Speed and Distance Measuring Equipment (SDME)

as defined in the Marine Equipment Directive and listed in Commission Directive 2011/75/EU

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

Signed:

Issue Date: 13 February 2013

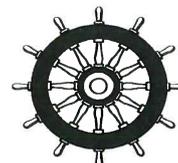
On Behalf of TÜV SÜD BABT

Number: BABT-MED001007 Issue: 01

This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex

This certificate is valid from 13 February 2013 until not later than 12 February 2018

The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact Customer.Services@babt.com



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TÜV SÜD BABT • TÜV SÜD Group

Octagon House • Concorde Way • Fareham • Hampshire • PO15 5RL • United Kingdom



Annex to

Marine Equipment Directive Module B Type Examination Certificate

Description of Equipment

Doppler Sonar System

Model: JLN-550

System Components:

Display Unit	NWW-60 ^{Note 1 & 2}
Sonar Signal Processor	NJC-24 ^{Note 3}
Sonar Signal Distributor	NQA-3012
Transducer Assembly	NKF-770 (in weldable tank) ^{Note 4} NKF-772 (in Gate Valve) ^{Note 4}

Optional Units:

Wing Display	NWW-61 ^{Note 1}
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Software: ^{Note 5}

NWW-60/61	R1.30
NQA-3012	R1.24
NJC-24	R2.22C

Compliance Matrix For MED Item A.1/4.7

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1:2008	General Requirements for Marine Navigation Equipment" (Inc. Corr1:2008)
IMO Res A.824(19) as amended by 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)	IEC 62288 (2008)	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

Manufacturer:

Name: As Holder
Address: As Holder



Relevant Technical Documentation

User Guide: JLN-550 Doppler Sonar Instruction Manual Part No. 7ZPBS2802B, dated 2010-01-16

Test report numbers:

IEC 61023 (2007)	RM610425B, 2003-02-12
	JRC Compliance Declaration, 2013-02-13
IEC 60945 (2002)	YN0211008-1, 2002-12-13
inc Corr.1	RM610425B, 2003-02-12
	QinetiQ/FST/UPS(WIN)100.13.6, 2003-02-05
IEC 62288 (2008)	NA13ZZ0208A, 2013-02-12
IEC 61162-1 (2010)	NA13AS0201A, 2013-02-01

Approved Hardware : Parts List: JLN-550_Parts List.xls, dated 2013-02-01

NOTES:-

- 1 Unit may have 1st suffix D or T depending on display configuration. D is for standard 2 axis, T is for third axis showing stern transverse speed.
- 2 Unit may have 2nd suffix A or B depending on mounting configuration. A is Wall Mount, B is Flush (Panel) Mount.
- 3 Unit has facilities to derive speed data from GNSS and Gyro heading serial data inputs. This additional aspect has no agreed international standard and is not included in this approval.
- 4 Attachment and/or welding of either assembly to vessel hull must be under inspection/approval of appropriate Flag or Class Authority.
- 5 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 BAPT.

Additional Information:

The products listed on this certificate were originally assessed and certified by QinetiQ under Notified Body number 0191. This certificate replaces QinetiQ Certificate Number QQ-MED-02/08-01R2.

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

The assessed equipment is also in compliance with Directive 96/98/EC, as amended by Commission Directive 2012/32/EU, this Module B Certificate is also valid under that amendment.

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 BABT or a person appointed by TÜV SÜD 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 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 BABT

Date: 13th February 2013.....