



Bundesrepublik Deutschland

Federal Republic of Germany

BSH-Cert

Benannte Stelle - Navigations und Funkausrüstung
beim Bundesamt für Seeschifffahrt und Hydrographie

Notified Body - Navigation and Radiocommunication Equipment
at the Federal Maritime and Hydrographic Agency



NOTIFIED
BODY
0735

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

BSH-Cert, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz" of 09 September 1998 (BGBl. I, p. 2860) modified last 07 April 2010 (BGBl. I, p. 399), 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 (MED) 96/98/EC and the last modification by Directive 2010/68/EC.

Manufacturer **Japan Marina Co., Ltd. (JMC)**
Address **36-2-1001 Udagawa-cho, Shibuya-ku, Tokyo 150-0042, JAPAN**

Applicant **SAM Electronics GmbH**
Address **Behringstraße 120, 22763 Hamburg, GERMANY**

Annex A.1 Item **4.6 Echo-sounding equipment**
(No & item designation)

Product Name **NES 4610 / F-1000 / CVR-010**

Trade Name(s) **SAM (NES 4610), JMC (F-1000) / KODEN (CVR-010)**

Specified Standard(s)

IMO-Resolution A.224(VII) as amended by IMO-Resolution MSC.74(69) Annex 4	ISO 9875 Ed.3.0, 2000 as amended by Corr.1, 2006 IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008
IMO-Resolution A.694(17)	IEC 62288 Ed.1.0, 2008
IMO-Resolution MSC.191(79)	IEC 61162-1 Ed.4.0, 2010

Based on the Directive 2009/26/EC, additional applied version: Directive 2010/68/EC
This certificate remains valid unless cancelled, expired or revoked.

Date of issue: **25 February 2011** Issued by: **BSH-Cert**
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
Expiry date: **24 February 2016** Notified body **0735**

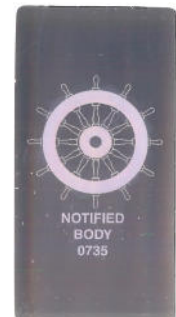
Certificate No.: **BSH/4612/4061654/11**

USCG-Module-B No.: **165.107/EC0735** Unique Identifier: **4061654**

This certificate consists of 4 pages.



Karl-Heinz Warnstedt
Karl-Heinz Warnstedt



Components necessary for operation:

See annex to EC Module (B) certificate BSH/4612/4061654/11

Additional components:

See annex to EC Module (B) certificate BSH/4612/4061654/11

Approval Documentation:

See annex to EC Module (B) certificate BSH/4612/4061654/11

Places of production:

Limitations on the acceptance or use of the product:

Limited to primary voltage systems of 20 – 24 VDC.

Notes:

The manufacturer shall inform BSH-Cert, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

U.S. Coast Guard Approval

This product has been assigned a U.S. Coast Guard Module B number (165.xxx/EC0735/Unique Identifier [if other than EC 0735: /Number of the notified body which certifies the quality assurance system]) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Maritime Equipment" signed February 27th, 2004.

Notice on legal remedies available:

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

**ANNEX TO
EC TYPE EXAMINATION (MODULE B) CERTIFICATE
No.: BSH/4612/4061654/11**

Components necessary for operation:

Designation	Type designation
Main Unit	NES 4610 / JMC F-1000 / CVR-010
Echo sounding Transducer	Atlas SW 6016 (100 kHz)
Echo sounding Transducer	ELAC LSE 297 (50 kHz)
Echo sounding Transducer	ELAC LSE 313 (200 kHz)
Echo sounding Transducer	ELAC LSE 328 (100 kHz)
Echo sounding Transducer	ELAC LSE 329 (100 kHz)
Echo sounding Transducer	TOKIN TGM 60-50-20L (50 kHz)
Echo sounding Transducer	TOKIN TGM 80-200-20L (200 kHz)

Additional components:

Designation	Type designation
Digital display	Plath UDR
Digital display	Skipper IR 301
Digital display	9205 T / ELAC DAZ 25/ DEBEG 4650 T / FILIA 522
Digital display	SAM 4900
Digital display	Consilium SD 2-3

Approval documentation:

Test Report No.: BSH/4612/4061654/10
 Test Report No.: BSH/4612/4061654/10-1
 Test Report No.: BSH/4612/4061654/10-2

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