



# 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 18 May 2011 (BGBl. I, p. 935), 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 2011/75/EC.

Manufacturer **Saab TransponderTech AB**  
 Address **Låsblecksgatan 3, 58941 Linköping, SWEDEN**

Applicant **Saab TransponderTech AB**  
 Address **Låsblecksgatan 3, 58941 Linköping, SWEDEN**

Annex A.1 Item (No & item designation) **4.14 GPS equipment**  
**4.50 DGPS equipment**

Product Name **Saab R4 DGPS Navigation System / Saab R4 GPS Navigation System / Saab R4 Combined AIS & Navigation System**

Trade Name(s) **Saab R4 DGPS Navigation System, Saab R4 GPS Navigation System, Saab R4 Combined AIS & Navigation System, C-Nav 1000 R4 Navigation System**

#### Specified Standard(s)

IMO Resolution MSC.112(73)	IEC 61108-1 Ed.2.0, 2003
IMO Resolution MSC.114(73)	IEC 61108-4 Ed.1.0, 2004
IMO Resolution A.694(17)	IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008
IMO Resolution MSC.191(79)	IEC 61162-1 Ed.4.0, 2010
	IEC 62288 Ed.1.0, 2008

Based on the Directive 2009/26/EC, additional applied versions: Directive 2010/68/EC, 2011/75/EC  
This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: **04 October 2011**

Issued by: **BSH-Cert**  
**Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany**  
Notified body **0735**

Expiry date: **03 October 2016**

Certificate No.: **BSH/4612/4142030/11**

USCG-Module-B No.: **165.130/EC0735** Unique Identifier: **4142030**

This certificate consists of 2 pages.



*Karl-Heinz Warnstedt*  
Karl-Heinz Warnstedt



**Components necessary for operation:**

Component	Type name	Part No.
DGPS Navigation Sensor or GPS Navigation Sensor	R4 DGPS Navigation Sensor <i>or</i> R4 GPS Navigation Sensor	7000 109-140 (DGPS) 7000 109-141 (GPS)
Keyboard and Display Unit	R4 Display Unit	7000 108-050 Software Version Nav 5.1.x
DGPS Antenna or GPS Antenna	MGL-3 DGPS Antenna <i>or</i> MGL-4 DGPS Antenna <i>or</i> MGA-2 GPS Antenna	7000 000-262 (MGL-3) 7000 000-359 (MGL-4) 7000 000-263 (MGA-2)

**Optional Components for operation:**

An R4 AIS Transponder can be connected to the system in order to provide full AIS functionality. In this case the display software AIS & Nav 5.x is required. The AIS function of the R4 Combined AIS & Navigation System is not covered by this certificate. An additional AIS certificate is necessary.

Component	Type name	Part No.
AIS Transponder Unit	R4 AIS Transponder Unit	7000 100-550
VHF Antenna	VHF Antenna BA1012 or equivalent	7000 000-077 (BA1012)
AIS GPS Antenna	AT575-68, MGA2 or equivalent	7000 000-078 (AT575-68) 7000 000-263 (MGA-2)

**Approval Documentation:**

Assessment Report No.: BSH/4612/4142030/11/S3301  
 Test Report No.: BSH/4612/4141217/09 (IEC 62288)  
 Test Report No.: BSH/4612/4140293/06  
 OPERATOR'S MANUAL R4 Navigation System 7000 109-143 rev F  
 R4 Combined AIS & Navigation System 7000 109-147 rev G  
 INSTALLATION MANUAL R4 Navigation System 7000 109-142 rev G  
 R4 Combined AIS & Navigation System 7000 109-153 rev A

**Places of production:**

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**Limitations on the acceptance or use of the product:**

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**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 27<sup>th</sup>, 2004, and additional information given by U.S. Coast Guard by E-Mail 2010.

**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