



# 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 08 April 2008 (BGBl. I, p. 706), 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 2009/26/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) **4.32 Universal automatic identification system equipment (AIS)**

Product Name **Saab R4**

Trade Name(s) **See page 4**

#### Specified Standard(s)

IMO Resolution A.694(17)	IEC 61993-2 Ed.1.0, 2001
IMO Resolution MSC.74(69) Annex 3	IEC 61108-1 Ed.2.0, 2003
IMO Resolution MSC.191(79)	IEC 61162-1 Ed.3.0, 2007
ITU-R M.1371-3 (Class A), 2007	IEC 61162-2 Ed.1.0, 1998
ITU-R M.825-3, 1998	IEC 60945 Ed.4.0, 2002 incl. Corr.1, 2008
ITU-R M.1084-3, 1998	IEC 6288 Ed.1.0, 2008

Based on the Directive 2009/26/EC

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: **25 May 2010**

Issued by: **BSH-Cert**

Expiry date: **24 May 2015**

**Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany**  
Notified body 0735

Certificate No.: **BSH/4612/4321558/10**

USCG-Module-B No.: **165.155/EC0735**

Unique Identifier: **4321558**

This certificate consists of 6 pages.



Kai-Jens Schulz-Reifer



**Components necessary for operation:****The R4 AIS system is certified in the following versions:**

In all versions the internal GPS sensor of the Saab R4 AIS is used as a backup sensor for position reporting.

**a) AIS Class A Transponder System**

component	part no.	Remarks
R4 AIS Transponder	7000 100-550	Software Version: R4 5.2.X
Display R4 Keyboard and Display unit	7000 108-050	Software Version: AIS 5.2.X
GPS antenna AT575-68	7000 000-078	
GPS antenna MGA-2	7000 000-263	alternative GPS antenna
VHF antenna BA 1012	7000 000-077	or equivalent

**b) AIS Class A combined with Inland AIS**

This version is certified only if it is operated in Class A mode

component	part no.	Remarks
R4 Class A and Inland Transponder	7000 100-550	Software Version: R4 IAIS 1.x
R4 Class A and Inland Display	7000 108-050	Software Version: IAIS 1.x
GPS antenna AT575-68	7000 000-078	
GPS antenna MGA-2	7000 000-263	
VHF antenna BA 1012	7000 000-077	or equivalent

**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

**c) Saab R4 Combined AIS & Navigation System**

The GPS function of the R4 GPS/DGPS Sensor is not covered by this certificate. An additional GPS certificate is necessary.

component	part no.	remarks
R4 AIS Transponder	7000 100-550	Software Version: R4 5.2.x
Display R4 Keyboard and Display unit	7000 108-050	Software Version: AIS & NAV 5.2.x
GPS antenna AT575-68	7000 000-078	GPS antenna for the AIS unit
GPS antenna MGA-2	7000 000-263	Alternative GPS antenna for the AIS unit
R4 GPS/DGPS Sensor	DGPS: 7000 109-140 GPS: 7000 109-141	The operation of the R4 GPS/DGPS Sensor is done using the R4 Keyboard and Display unit.  In this case the MKD software version AIS & NAV 5.2.x is required.
GPS/DGPS antenna MGA-2 MGL-4	MGA-2 : 7000 000-263 MGL-4 : 7000 000-359	GPS antennas for the DGPS sensor
VHF antenna BA 1012	7000 000-077	or equivalent

**d) R4S Secure AIS Transponder System**

This version is certified only if it is operated in Class A mode, not in the Secure mode

component	part no.	Remarks
R4S Secure AIS Transponder	7000 100-550/ 7000 100-556	Software Version: Secure 2.4.x
R4S Secure AIS Display	7000 108-050	Software Version: Secure 2.4.x
GPS antenna AT575-68	7000 000-078	
GPS antenna MGA-2	7000 000-263	alternative GPS antenna
VHF antenna BA 1012	7000 000-077	or equivalent

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**The equipment version a) (AIS Class A transponder system) is also available under the following trade names:**

#### **Kelvin Hughes NIS 2002 MkII AIS System**

component	part no.	remarks
R4 AIS Transponder AIS Transponder unit	Part Number: SA-7001-000-252	Software Version: R4 5.2.x
R4 Display Keyboard and Display unit	Part Number: SA-7001-000-253	Software Version: Application AIS 5.2.x
GPS antenna AT575-68	Part Number: SA-7000-000-078	or equivalent
GPS antenna MGA-2	Part Number: SA-7000-000-263	or equivalent. Alternative GPS antenna
VHF antenna BA1012	Part Number: SA-7000-000-077	or equivalent

#### **Sperry Marine R4 AIS**

component	part no.	Remarks
R4 AIS Transponder AIS Transponder unit	Part Number: 7000100-550/S	Software Version: R4 5.2.x
R4 Display Keyboard and Display unit	Part Number: 7000108-050/S	Software Version: Application AIS 5.2.x
GPS antenna AT575-68	Part Number: 7000000-078	or equivalent
GPS antenna MGA-2	Part Number: 7000000-263	or equivalent. Alternative GPS antenna
VHF antenna SAAB 1012	Part Number: 7000000-077	or equivalent

#### **TRA-2000 AIS Shipborne Class A Transponder System**

component	part no.	Remarks
R4 AIS Transponder AIS Transponder unit	Part Number: 7000100-550	Software Version: R4 5.2.x
R4 Display Keyboard and Display unit	Part Number: 7000108-050	Software Version: Application AIS 5.2.x
GPS antenna AT575-68	Part Number: 7000000-078	or equivalent
GPS antenna MGA-2	Part Number: 7000000-263	or equivalent. Alternative GPS antenna
VHF antenna SAAB 1012	Part Number: 7000000-077	or equivalent

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**Approval Documentation:**

Test Report No.: BSH/461274321558/10 (IEC 61108-1)  
 Assessment Report No.: BSH 4612/4321558/10 (IEC 61993-2)

**a) R4 AIS Class A Transponder System:**

- Installation Manual 7000 108-011
- Operators Manual 7000 108-131

**b) AIS Class A combined with Inland AIS:**

- Installation Manual 7000 108-011
- Operators Manual 7000 108-131
- R4 IAIS Transponder System MANUAL SUPPLEMENT 7000 108-310

**c) R4 Combined AIS & Navigation System**

- Installation Manual 7000 109-153
- Operators Manual 7000 109-147

**d) R4 Secure AIS Transponder System:**

- Installation Manual 7000 108-011
- Operators Manual 7000 108-131
- Secure AIS Transponder System Manual 7000 108-326

**Places of production:**

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

This certificate is only valid for the different versions of the Saab R4 Systems if they are operated in the Class A mode.

It is only valid for R4 Transponder units with serial numbers from 24000 and above.

**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.

The AIS radio transmitter is required to be authorized by U.S. Federal Communications Commission (FCC)

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