



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 23 January 2014 (BGBl. I, p. 78), 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 2015/559/EU.

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
4.15	GLONASS equipment
4.51	DGLONASS equipment

Product Name **Saab R5 DGPS Navigation System / Saab R5 GPS Navigation System /
Saab R5 SUPREME AIS & Navigation System**

Trade Name(s) **Saab R5 DGPS Navigation System / Saab R5 GPS Navigation System /
Saab R5 SUPREME AIS & Navigation System**

Specified Standard(s)

IMO Resolution MSC.112(73)	IEC 61108-1 Ed.2.0, 2003
IMO Resolution MSC.113(73)	IEC 61108-2 Ed.1.0, 1998
IMO Resolution MSC.114(73)	IEC 61108-4 Ed.1.0, 2004
IMO Resolution MSC.115(73)	IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008
IMO Resolution A.694(17)	IEC 61162-1 Ed.4.0, 2010
IMO Resolution MSC.191(79)	IEC 62288 Ed.2.0, 2014

Based on the Directive 2013/52/EU, additional applied version: Directive 2014/93/EU

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: **6. May 2015**

Issued by: **BSH-Cert**

Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

Expiry date: **5. May 2020**

Notified body 0735

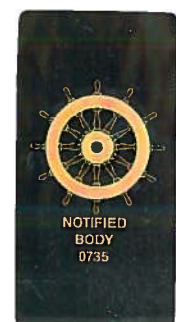
Certificate No.: **4581/001/4142521/15**

USCG-Module-B No.: **165.130/EC0735** Unique Identifier: **4142521**

This certificate consists of 2 pages.



Kai Jens Schulz-Reifer



Components necessary for operation:

Component	Part No.	Remarks
R4 DGPS Navigation Sensor <i>or</i> R4 GPS Navigation Sensor	7000 109-140 7000 109-141	DGPS and GPS functionality, only
R4 DGNSS Navigation Sensor <i>or</i> R4 GNSS Navigation Sensor	7000 109-180 7000 109-181	DGNSS and GNSS (GPS+GLONASS)
R5 CDU	7000 118-11X	Software Version: R5 SUPREME CDU 1.1.X
R4 Sensor DGPS antenna MGL-4 <i>or</i> R4 Sensor GPS antenna MGA-2 <i>or</i> R4 Sensor DGPS antenna MXB5	7000 000-359 7000 000-263 7000 000-552	GPS and DGPS functionality, only
R4 Sensor DGNSS antenna MGL-5 <i>or</i> R4 Sensor GNSS antenna MGA-3	7000 000-555 7000 000-554	DGNSS and GNSS (GPS+GLONASS)

Optional Components for operation:

An R5 SUPREME AIS Transponder can be connected to the system in order to provide full AIS functionality. The AIS function of the R5 SUPREME AIS & Navigation System is not covered by this certificate. An additional AIS certificate is necessary.

Component	Part No.	Remarks
R5 SUPREME AIS Transponder	7000 118-10X	Software version: R5 1.1.X
VHF antenna BA 1012	7000 000-077	or equivalent VHF antenna
VHF/GPS antenna AC Marine VHF/GPS-B	7000 000-435	alternative VHF/GPS antenna
GPS antenna MA 700 <i>or</i> GPS antenna AT575-68	7000 000-485 7000 000-135	alternative GPS antenna
Network switch Moxa EDS-408A		

Approval Documentation:

Test Report No.: BSH/4543/001/4112681/13 (IEC 61162-1 mandatory GNSS output sentences)
 Test Report No.: BSH/4542/001/4112550/13
 Test Report No.: BSH/4612/4142107/12-1 (IEC 62288 Section 4, 7)
 Test Report No.: BSH/4612/4141217/09 (IEC 62288)
 Test Report No.: BSH/4612/4140607/07 (MX B5 Antenna)
 Test Report No.: BSH/4543/001/4322711/15 (IEC 62288 Ed.2.0, IEC 61993-2)
 Operation & Installation Manual: R5 SUPREME Navigation System, 7000 118-301
 Declaration letter from Hemisphere GPS, dated July, 15th 2013

Places of production:

Limitations on the acceptance or use of the product:

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, 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