



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 2014/93/EU.

Manufacturer **FT-TEC GmbH**
Address **Werner von Siemens Strasse 5, 7343 Neutal, AUSTRIA**

Applicant **FT-TEC GmbH**
Address **Werner von Siemens Strasse 5, 7343 Neutal, AUSTRIA**

Annex A.1 Item **4.55 AIS SART equipment**
(No & item designation)

Product Name **SEAANGEL SA14-SART**

Trade Name(s) **SEAANGEL**

Specified Standard(s)

IMO Resolution A.694(17)	IEC 61097-14 Ed.1.0, 2010
IMO Resolution MSC.246(83)	IEC 60945 Ed.4.0, 2002 incl. Corr.1, 2008 ²
IMO Resolution MSC.247(83)	IEC 61162 series ³
IMO Resolution MSC.256(84)	
IMO Resolution A.802(19)	
ITU-R M.1084-5	
ITU-R M.1371-5, 2014 ¹	

¹ as relevant to AIS SART

² limited to requirements of IEC 61097-1

³ equipment has no interfaces

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: **15 December 2014**

Issued by: **BSH-Cert**

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

Expiry date: **14 December 2019**

Notified body 0735

Certificate No.: **4581/001/4552646/14**

This certificate consists of 2 pages.



Kai-Jens Schulz-Reifer



Components necessary for operation:

<i>Component</i>	Type or part number	Remarks
Transceiver	SEAANGEL SA14-SART	Software Version: 1.2.x
GPS antenna	internal	
VHF antenna	internal	

Approval Documentation:

Test Report No.: BSH/4543/001/4552802/14-1 IEC 61097-14 Protocol test report
 Test Report No.: BSH/4543/001/4142824/14-2 IEC 61108 GPS test report
 Test Report No.: BSH/4543/001/4552802/14-4 IEC 61097-14 Physical radio assessment report
 Test Report No.: BSH/4543/001/4552802/14-5 IEC 60945 Environmental tests assessment report
 Test Report No.: BSH/4543/001/4552802/14-6 IEC 60945 Operational test report
 Certificate No.: 897 Compass safe distance

User Manual SEAANGEL, Model SA14-SART, Issue date: 15.12.2014, Version 1.0

Places of production:

FT-TEC GmbH, Werner von Siemens Strasse 5, 7343 Neutal, AUSTRIA

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.

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