

EC TYPE-EXAMINATION (MODULE B) CERTIFICATE

Marine Equipment Directive (MED) 2014/90/EU

PHOENIX TESTLAB
Notified Body Number **0700**

Recognised by



0800S11/4822/007

This is to certify that:

PHOENIX TESTLAB did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto.

Certificate No.	PTL-MED-B-20-111140
Manufacturer	FT-TEC Electronics GmbH
Address	Werner von Siemens-Straße 5 7343 Neutal, AUSTRIA
Directive Reference (No & Item designation)	Directive 2014/90/EU, Regulation (EU) 2019/1397 MED/4.55 Search and rescue locating devices (SRLD): AIS SART equipment
Product Name / Trade Name	SEAANGEL / SA14-SART

Specified Standards

IMO Res. MSC.246(83)	IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)
ITU-R M.1371-5 (2014)	IEC 61097-14 Ed. 1.0 (2010)

Date of issue: **2020-08-05** Expiry date: **2025-08-04**

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

The attached Schedule of Approval forms part of this certificate. This certificate consists of 3 pages.



Signed by Klaus Knörig
Notified Body

Schedule of Approval

Components necessary for operation:

Component	Description	Software Version
Transceiver	SEAANGEL SA14	1.2.x
GPS antenna	Internal	N/A
VHF antenna	internal	N/A

Approval documentation

User Manual	User Manual SEAANGEL, Model: SA14-SART, Rev. 1.2.2
Schematics	Schematic Diagram, Drawing No. 5400013V-SHx, V0.3
PCB Layout and Parts Placement	PCB 3D Print 5400013V03-3P-x, Assembly Drawing 5400013V03-AD-x, PCB Layers 5400013V03-LY-x, 2014-05-21
Parts List	5400013V03, 2014-05-12
Mechanical Drawing	5400013V03-MD-x, 2014-05-12
Label	SEAAGEL SA14-SART Label Drawing
Risk Assessment	Risk Assessment, 2020-08-03

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
IEC 61097-14 Ed. 1.0 (2010)	BSH	BSH/4543/001/4552802/14-4, 2014-11-12
IEC 61097-14 Ed. 1.0 (2010)	BSH	BSH/4543/001/4552802/14-1, 2014-12-03
IEC 61097-14 Ed. 1.0 (2010)	PHOENIX TESTLAB	F142199E1, 2014-09-15
IEC 61108-1 Ed. 2.0 (2003)	BSH	BSH/4543/001/4552802/14, 2014-09-30
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	BSH	BSH/4543/001/4552802/14-6, 2014-12-12
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	BSH	BSH/4543/001/4552802/14-5, 2014-12-03
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	PHOENIX TESTLAB	F142199E2, 2014-09-16



Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	PHOENIX TESTLAB	U142199E1, 2014-11-10
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	PHOENIX TESTLAB	U142199E2, 2014-11-10
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008), Clause 11.2, Compass safe distance	BSH	Certificate No. 891, 2014-11-27

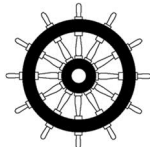
Application/Limitation

- None -

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the period of validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on the market and on board vessels to which the amended regulations or standards apply.

3.



The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.