

EC TYPE-EXAMINATION (MODULE B) CERTIFICATE

Marine Equipment Directive (MED) 2014/90/EU

PHOENIX TESTLAB
Notified Body Number **0700**

Recognised by



0800S11/4822/007

BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

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-22-110402 - 22-120752
Manufacturer Address	SAL Navigation AB Västberga Allé 36 B 126 30 Hägersten Sweden
Directive Reference (No & Item designation)	Directive 2014/90/EU, Regulation (EU) 2021/1158 MED/4.7 Speed and distance measuring equipment (SDME)
Product Name / Trade Name	SAL R200 / SAL R200, R1d

Regulations SOLAS 74, as amended

Regulations V/18, V/19, X/3, IMO Res. A.694(17), IMO Res. A.824(19) as amended by IMO Res. MSC.96(72), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87) *

Testing Standards

IEC 61023 Ed. 3.0 (2007-06)	IEC 61162-450 Ed. 2.0 (2018-05)
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	IEC 62288 Ed. 2.0 (2014-07)
IEC 61162-1 Ed. 5.0 (2016-08)	IEC 62923-1 Ed. 1.0 (2018-08) *
IEC 61162-2 Ed. 1.0 (1998-09)	IEC 62923-2 Ed. 1.0 (2018-08) *

*) The equipment is not capable of issuing alerts.

Date of issue: **2022-08-04** Expiry date: **2027-08-03**
USCG Approval Category: **165.105**

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.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

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Schedule of Approval

System Components

Component	SAL R200 Branded for SAL Navigation		R1d Branded for Consilium		Software Version***
	Description	P/N	Description	P/N	
Main Unit	SAL TIC	80.11.04	TIC	5400200	Axx
Transducer**	TRU EW1 SV 200kHz*	2492330	TRU EW1 SV 200kHz*	2492330	Bxx
	TRU EW1 ET 200kHz Lower Part*	2492342	TRU EW1 ET 200kHz Lower Part*	2492342	
	TRU EW1 ET 200kHz Upper Part*	2492346	TRU EW1 ET 200kHz Upper Part*	2492346	
	TRU EW1 ET 200kHz Upper Part WTC*	2492341	TRU EW1 ET 200kHz Upper Part WTC*	2492341	
Display	SAL SD4-3	80.12.03	SAL SD4-3	704043	Cxx

*) Combined transducer shared with Echosounder system. SDME and Echosounder functions have separate signal cables and transducer elements that work independently.

**) Only one transducer is necessary for operation.

***) Capital letters in the Software Version indicate Major revisions (A, B, C, etc.), whereas "xx" represent Minor revision numbers (01, 02, 03, etc.) with no impact on type approved functionality. ("N/A" means there is no software in the component.)

Approval documentation

Manuals	801604A02, SAL R200 User Manual 801605A01, SAL R200 Installation Manual
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Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 11.2, Compass Safe Distance	BSH	Certificate No. 1091, 2021-06-03
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.7	Intertek	2025111JAR-201, 2021-02-02
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.9	Intertek	2025111STO-202, 2021-08-27
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.2, 8.3, 8.4, 12.1	Intertek	2025111STO-201, 2021-02-09
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10	Intertek	2020363STO-101, 2020-12-18

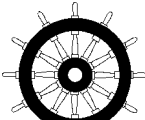


Specification	Laboratory	Test Report Number / Version
IEC 61023 Ed. 3.0 (2007-06)	SAL Navigation	TP20129, 2020-09-14
IEC 61162-1 Ed. 5.0 (2016-08)	BSH	BSH/454.ESE/Consilium R1Ed/4, 2022-01-20
IEC 61162-2 Ed. 1.0 (1998-09)		
IEC 61162-450 Ed. 2.0 (2018-05)	BSH	BSH/454.ESE/Consilium R1Ed/1, 2021-10-12
IEC 62288 Ed. 1.0 (2008-07)	BSH	4612/4071591/10, 2010-03-17
IEC 62288 Ed. 1.0 (2008-07)	Consilium	TP09093B, 2009-10-28
IEC 62288 Ed. 2.0 (2014-07)	Consilium	TP15047A01, 2015-02-20

Application/Limitation

The SAL R200 system is a Speed Log for measuring speed and distance through the water. The speed and distance measuring equipment (SDME) is not capable of issuing alerts.

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. During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by the Notified Body.
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.

U.S. Coast Guard Approval

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2008 dated February 18th, 2019 according to U.S. Coast Guard approval category 165.105.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MRA.