

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-18-111844
Manufacturer	Consilium SAL Navigation AB
Address	Västra Finnbodavägen 2-4 13130 Nacka Sweden
Directive Reference (No & Item designation)	Directive 2014/90/EU, Regulation (EU) 2018/773 MED/4.7 Speed and distance measuring equipment (SDME)
Product Name / Trade Name	SAL R1a

Specified Standards

IMO Resolution A.694(17)	IEC 61023 Ed. 3.0 (2007-06)
IMO Resolution A.824(19)	IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)
IMO Resolution MSC.191(79)	IEC 61162-1 Ed. 5.0 (2016-08)
IMO Resolution MSC.302(87)	IEC 62288 Ed. 2.0 (2014-07)

Date of issue:	2019-01-31	Expiry date:	2024-01-30
USCG Module B No.:	165.105/EC0700		

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.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 4 pages.



Signed by Klaus Knörig
 Notified Body

Schedule of Approval

System Components

Component	Description	Part No	Software Version
Speed Log Main Unit	SAL R1a Electronics Cabinet (ELC), contains Water Track Unit Assembly (WTU – Assy.)	703800D	
	Software for ELC, WTU_Assy_sw	5400130	Axx
Transducer	SAL R1 TRU	705050 (30 m cable) 705051 (40 m cable)	---
	OR SAL Easy Tank	5492300 (10 m cable) 5492400 (40 m cable)	---
Speed Log Master Display	SAL SD4-3	704043	
	Software for SD4 display, SAL SD4 sw	704021	Cx

Optional Components

Speed Log Processing Unit	SAL LPU2	704500	
	Software for LPU2, Flash Image	704580	Axx
NMEA Buffer	1N4B	704160	
SD4 series displays	SAL SD4-2	704042	
	SAL SD4-4	704044	
Bulkhead Mounting Box	SD4 BMB, Bulkhead mounting box for SD4 display	704080	
Analogue Display	SIA-2-8	71-21049-17	
Analogue Display	SIA-3-8	701692	



Approval documentation

Manuals	Manual SAL R1a Speed log, Document Id. 703810E2 SIA-3-8 Technical Manual, Document Id. 701695A2
Certificates	Type Approval Certificate TAA00001Y Rev. 1, issued 2018-10-02 by DNV GL EC Type Examination Certificate 4581/001/4072707/15, issued 2015-02-27 by BSH-Cert
Statements	Statement on SD4-, LPU2- and WTU-Assy software, Document Id. TP19010A01, 2019-01-11 Statement on MED Implementing Regulation 2018-773, Document Id. TP19016A01, 2019-01-23 Summary of adaptations made to SD4 to comply with 62288 ed 2.0, Document Id. TP15047A01, 2015-02-19

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. 445, 2005-07-04
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10, EMC	Intertek	1122354-2 Ed. 2, 2012-04-27
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.7, 8.2 – 8.4, 12.1, Environmental	Intertek	1122354-1, 2012-03-30
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.7, Environmental	Innventia	273 152 B, 2012-01-17
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.2, 8.4, Environmental	Intertek	1209547-4, 2012-04-02
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, EMC	Jan Linders AB	TP16064 Ver. A01, 2016-04-01
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, EMC	Jan Linders AB	TP16065, 2016-03-23
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.2 – 8.4, Environmental	Intertek	913128, 20029-10-30
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10, EMC	SP Technical Research	F917800-A, 2009-12-14
IEC 61023 Ed. 2.0 (1999-07)	BSH	4612/4070407/06, 2006-11-28
IEC 61023 Ed. 3.0 (2007-06)	BSH	4612/4071591/10-1, 2010-03-17
IEC 61023 Ed. 3.0 (2007-06)	BSH	4612/4061984/11, 2011-09-30



Applied Standards and Test Reports

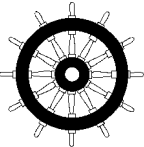
Specification	Laboratory	Test Report Number / Version
IEC 61162-1 Ed. 2.0 (2000-07)	Consilium	TP02111A0, 2002-04-24
IEC 61162-1 Ed. 4.0 (2010-11)	BSH	4612/4071840/11, 2011-01-12
IEC 61162-1 Ed. 3.0 (2007-04)	BSH	46162/0041158/09, 2010-03-22
IEC 62288 Ed. 1.0 (2008-07)	BSH	4612/4071591/10, 2010-03-17
IEC 62288 Ed. 1.0 (2008-07)	Consilium	TP09093B, 2009-10-28
IEC 62288 Ed. 2.0 (2014-07)	Consilium	TP15047A01, 2015-02-20

Limitations / Restrictions

Speed and distance measuring equipment (SDME) for measuring speed and distance through the water.

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.

U.S. Coast Guard Approval

This product has been assigned a U.S. Coast Guard Module B number 165.105/EC0700 to note type approval to Module B only as it pertains to obtaining US 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 Marine Equipment" signed February 27th, 2004.