



Manufacturer's Declaration of Conformity

**SAL SVF-200
Voyage Data Recorder**

We, the undersigned manufacturer

SAL Navigation AB

Västberga Allé 36B, SE-126 30 Hägersten, SWEDEN

Certify and declare that the equipment listed below has been designed; type approved and is manufactured according to the requirements of Marine Equipment Directive (MED) 2014/90/EU and Implementing Regulation (EU) 2023/1667.

Type of equipment:	Item 4.29 Voyage Data Recorder (VDR)
Manufacturer:	SAL Navigation AB
Name:	SAL SVF-200

The equipment has been tested and verified to be in conformance with the following regulations and standards:

Regulation SOLAS 74, as amended. Regulations V/18, V/20, X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO Res. MSC.333(90), IMO Res. MSC.494(104)

IEC 60945 Ed. 4.0:2002 incl. Corr. 1:2008	IEC 61996-1 Ed. 2.0:2013 + A1:2021
IEC 61162-1 Ed. 5.0:2016	IEC 62288 Ed. 3.0:2021
IEC 61162-2 Ed. 1.0:1998-09	IEC 62923-1 Ed. 1.0:2018
IEC 61162-450 Ed. 2.0:2018	IEC 62923-2 Ed. 1.0:2018

EC type-examination (module B) certificate Notified body	No: PTL-MED-B-23-111388 - 23-123467 Phoenix Testlab in Germany (0700)
Quality system (module D) certificate Notified body	No: MEDD00001 Y1 DNV AS in Norway (0575)
Marking	

The technical documentation for this equipment is retained at the following address:
SAL Navigation AB, Västberga Alle 36B, SE-126 30 Hägersten, SWEDEN

Date: 25 November 2024

Signature:

Anders Fagergren
Chief Technology Officer

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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-23-111388 - 23-123467
Manufacturer	SAL Navigation AB
Address	Västberga Allé 36 B SE-126 30 Hägersten Sweden
Directive Reference (No & Item designation)	Directive 2014/90/EU, Regulation (EU) 2023/1667 MED/4.29 Voyage Data Recorder (VDR)
Product Name / Trade Name	SAL SVF-200 / SAL SVF-200

Regulation SOLAS 74, as amended

Regulations V/18, V/20, X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO Res. MSC.333(90), IMO Res. MSC.494(104)

Testing Standards

IEC 60945 Ed. 4.0:2002 incl. Corr. 1:2008	IEC 61996-1 Ed. 2.0:2013 + A1:2021
IEC 61162-1 Ed. 5.0:2016	IEC 62288 Ed. 3.0:2021
IEC 61162-2 Ed. 1.0:1998-09	IEC 62923-1 Ed. 1.0:2018
IEC 61162-450 Ed. 2.0:2018	IEC 62923-2 Ed. 1.0:2018

Date of issue:	2023-10-18	Expiry date:	2028-10-17
USCG Approval Category:	165.150		

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 5 pages.



Signed by Klaus Knörig
Notified Body

Schedule of Approval

Components necessary for operation

Component	Description	Part Numbers SAL / Consilium	Software Version*
Main Unit	SVF-200 Main Unit	80.31.01 / 5490104	Axx
Audio Mixer Unit	AMU	80.31.02 / 5490300	Axx
Remote Control Unit	RCU2	80.32.01 / 5491300	Axx
Microphone	AM2	80.33.01 / 5491180	N/A
Fixed Capsule	PROCAP32GB	80.35.01 / 5490890	Fxx
Float Free Capsule**	Tron40 VDR AIS	80.35.06	Axx
Float Free Capsule** with Heater	Tron40 VDR AIS with Heater	80.35.07	Axx
Underwater Location Beacon	PT9 NINETY	5491380	N/A

*) 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.)

***) One of the two Float Free Capsules shall be used.

Optional components

Component	Description	Part Numbers SAL / Consilium	Software Version**
Video Grabber Unit	VGU	80.31.03 / 5490200	Axx
Video Grabber Unit 2	VGU2	80.31.04 / 5490270	Gxx
Signal Converter	DDU	80.31.05 / 5490940	Axx
- Analogue Module 2 ch	DDU AI2	5490963	
- Digital Module 8 ch	DDU DI8-HD	5490968	
- Power Distribution 24V	DDU PD 24V	5490967	

*) 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.)

Limitations on the acceptance or use of the product

- None -

Approval documentation

Manuals

Installation Manual SAL SVF-200 Voyage Data Recorder, December 2022, Document No.: 80.36.02-00A14, Part No.: 80.36.02

Installation Drawing, PP14005 Ver. B01, 2022-06-16

Signal Converter DDU Installation Manual, Document No. 5410920-00A06, Part No. 5490920A06, November 2020

User Guide SAL SVF-200 Voyage Data Recorder, November 2020, Document No.: 80.36.01-00A08, Part No.: 80.36.01

Approval documentation

Manuals VDR / S-VDR Investigative Authority Guide, User Guide, November 2020, Document No. 5410062-00C06, Part No. 5410062
VDR / S-VDR Professional Player Guide, User Guide, November 2020, Document No.: 5410063-00C05, Part No.: 5410063
User Guide Appendix VDR/S-VDR, Document No. 5410092A05, 2020-09-23

Applied Standards and Test Reports

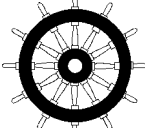
Specification	Laboratory	Test Report Number / Version
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 11.2, Compass Safe Distance	SP Technical Research	MTkP904761, 2009-08-25
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) EMC, Environmental, Compass Safe Distance	DELTA	DANAK-1910777, 2010-01-28
IEC 61996-1 Ed. 1.0 (2000-07) IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10, EMC	Intertek	1302125, Ed. 2, 2013-06-28
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section, 8.2 – 8.4, 8.7, 12.1	Intertek	1305247-1, 2013-06-07
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 11.2, Compass Safe Distance	BSH	Certificate No. 809, 2013-05-27
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 11.2, Compass Safe Distance	BSH	Certificate No. 878, 2014-08-20
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10, EMC	Intertek	1400771, Ed.1, 2014-02-19
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section, 8.2 – 8.4, 8.7, 12.1.	Intertek	1400260, 2014-02-03
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 9, 10, EMC	Intertek	1719591STO-002, Ed. 1, 2018-02-12
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.7, 8.8, 8.12	Nemko	16049.00, 2016-04-18
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Sections 6, 11.1, 13-15	BSH	BSH/4543/001/4292646/13-1, 2014-08-12
IEC 60945 Ed. 4.0 (2002) incl. IEC 60945 Corr. 1 (2008), Section 8.6 Low Temperature	Intertek	1122208, 2011-11-04

Specification	Laboratory	Test Report Number / Version
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.8 Rain and spray.	Intertek	1317383-2, 2014-01-15
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.2 – 8.4, 8.7, 12.1	Intertek	900659, 2009-08-26
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.7	INNVENTIA	279 480, 2009-08-12
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 10.6	Intertek	1023172-1, 2010-12-06
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.2, 8.4	Intertek	1023130-1, 2010-10-27
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.2, 8.4	Intertek	1023130-3, 2010-10-28
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 10.6	Intertek	1111384-1, 2011-03-23
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.2, 8.3, 8.4	Intertek	1914940JAR-002, 2019-10-01
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) Section 8.7	Intertek	1914940JAR-001, 2019-09-12
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014)	Intertek	1406514STO-001, 2014-05-23
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014)	DELTA	DANAK-19/15230, 2015-05-07
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014) IEC 61097-2 Ed. 3 (2008-01) IEC 60945 (2002) Ed.4	Nemko	E13261.06, 2015-03-03
IEC 61996-1 Ed. 1.0 (2007-11) IEC 61996-2 Ed. 2.0 (2007-11)	BSH	BSH/46121/4292377/12, 2013-06-17
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014) IEC 61162-1 Ed. 4.0 (2010-11) IEC 61162-2 Ed. 1.0 (1998-09)	BSH	BSH/4543/001/4292646/13, 2014-08-12
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014) IEC 62388 Ed. 2 (2013), Annex H.4	BSH	BSH/4543/001/4292910/15-1, 2015-06-25
IEC 61162-450 Ed1.0 (2011-06)	BSH	BSH/4543/001/4292910/15, 2015-06-25
IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014) IEC 61162-1 Ed. 5.0 (2016-08)	BSH	454.VDR/Consilium (S)-VDR F2/1, 2020-01-27

Specification	Laboratory	Test Report Number / Version
IEC 61162-450 Ed.1 (2011-06) incl. AM1 (2016)	BSH	454.VDR/Consilium (S)-VDR F2/1-2, 2020-01-27
IEC 61162-450 Ed. 2.0 (2018-05)	SAL Navigation AB	TP21070A15 VDR tests regarding IEC 61162-450 Ed. 2.0, 2021-08-10
IEC 62923-1 Ed. 1.0 (2018) IEC 62923-2 Ed. 1.0 (2018)	BSH	454.VDR/Consilium (S)-VDR F2/1-1, 2020-01-27
IEC 62288 Ed. 1.0 (2008-07)	Intertek	900659/2, 2009-07-03
IEC 62288 Ed. 2.0 (2014-07)	BSH	BSH/4543/001/4292646/13-2, 2014-08-12
IEC 62288 Ed. 3.0:2021	SAL Navigation AB	TP22101A02, 2022-08-02
IEC 61097-2 Ed. 4.0:2021	TÜV SÜD	75950873-07, issue 3, 2022-03-31
IEC 61996-1 Ed. 2.0:2013 +A1:2021	SAL Navigation AB	TP22030A07, 2022-11-02

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 165.150.

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.

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QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate no.:
MEDD00001Y1
Revision No:
11

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Quality System for the products**

with type designation(s) as specified in the Appendix to this Certificate

issued to

SAL Navigation AB
Hägersten, Sweden

is found to comply with the applicable requirements.

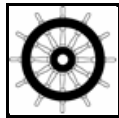
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2024/1975.

This Certificate is valid until **2029-11-20**.

Issued at **Høvik** on **2024-11-21**

DNV local unit:
Finland CMC

Approval Engineer:
Steinar Kristensen

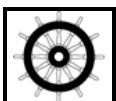


Notified Body No.:
0575

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed



The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein. This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

APPENDIX

Item no. MED/4.29 Voyage data recorder (VDR)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SAL SVF-200 ¹	PTL-MED-B-23-111388 - 23-123467	2028-10-17	0700	165.150/EC0700 /PTL-MED-B-23-111388 - 23-123467 /EC0575
Consilium VDR F2 ¹	PTL-MED-B-22-111810 - 22-123932	2027-12-14	0700	165.150/EC0700 /PTL-MED-B-22-111810 - 22-123932 /EC0575

Item no. MED/4.47 Simplified voyage data recorder (S-VDR)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SAL SVS-200 ¹	PTL-MED-B-23-111395 - 23-123477	2028-10-17	0700	165.151/EC0700 /PTL-MED-B-23-111395 - 23-123477 /EC0575
Consilium S-VDR S2 ¹	PTL-MED-B-22-111811 - 22-123933	2027-12-14	0700	165.151/EC0700 /PTL-MED-B-22-111811 - 22-123933 /EC0575

Item no. MED/4.6 Echo-sounding equipment

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SAL E200, E2d ¹	PTL-MED-B-24-111260 - 24-122772	2029-09-15	0700	165.107/EC0700 /PTL-MED-B-24-111260 - 24-122772 /EC0575
SAL T3 ¹	PTL-MED-B-23-111243 - 23-123126	2028-09-28	0700	165.107/EC0700 /PTL-MED-B-23-111243 - 23-123126 /EC0575

Item no. MED/4.7 Speed and distance measuring equipment (SDME)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SAL R200, R1d ¹	PTL-MED-B-24-111261-24-122773	2029-09-15	0700	165.105/EC0700 /PTL-MED-B-24-111261-24-122773 /EC0575
JLN-900 ¹	PTL-MED-B-23-111867 - 23-124640	2028-11-17	0700	165.105/EC0700 /PTL-MED-B-23-111867 - 23-124640 /EC0575
SAL T3 ¹	PTL-MED-B-23-111243 - 23-123135	2028-09-28	0700	165.105/EC0700 /PTL-MED-B-23-111243 - 23-123135 /EC0575
SAL T2+, SAL T200 ¹	PTL-MED-B-23-111244 - 23123127	2028-08-08	0700	165.105/EC0700 /PTL-MED-B-23-111244 - 23123127 /EC0575
SIMRAD R1 Easy Tank ¹	PTL-MED-B-21-111358	2026-09-30 ^{a)}	0700	165.105/EC0700 /PTL-MED-B-21-111358 /EC0575
SAL R1a ¹	PTL-MED-B-21-110911	2026-08-05 ^{a)}	0700	165.105/EC0700 /PTL-MED-B-21-110911 /EC0575
SAL R1a, SAL R100 ¹	PTL-MED-B-21-110103	2026-01-19 ^{a)}	0700	165.105/EC0700 /PTL-MED-B-21-110103 /EC0575

Places of production

- 1.SAL Navigation AB, Västberga allé 36 B, Hägersten, Sweden

^{a)} According to Commission Implementing Regulation (EU) 2024/1975, the last date for placing on board a vessel for this product is 2025-07-01