

# 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.

<b>Certificate No.</b>	PTL-MED-B-21-110900
<b>Manufacturer Address</b>	SKIPPER Electronics AS Enebakkveien 150 0612 Oslo Norway
<b>Directive Reference (No &amp; Item designation)</b>	Directive 2014/90/EU, Regulation (EU) 2020/1170 MED/4.7 Speed and distance measuring equipment (SDME)
<b>Product Name</b>	SKIPPER SATLOG SL1200

**Regulation SOLAS 74, as amended, and relevant resolutions and circulars of the IMO**  
Regulations V/18, V/19, X/3, IMO Res. A.694(17), IMO Res. A.824(19), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87) \*

### Specified Standards

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

\*) The equipment is not capable of issuing alerts.

Date of issue: **2021-05-11** Expiry date: **2026-05-10**

**This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.**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

### System Components

Component	Description	Part No	Software Version
Sensor Unit	SATLOG antenna	SL-SN300	1.01.xx
Display and Control Unit	Display with 9" touch panel	SL1200-SB	SW-M011-1.0.x
Power and Connection Unit	Junction box with power and buffer	JB40POW-SA	---

### Optional Components

Component	Description	Part No	Software Version
Multi repeater	Remote multi repeater for NMEA signals	CD401MR	SW-M001-1.xx
Repeater	Speed and Distance Repeater	IR300	SW-R003-1.xx
Remote dimming control	NMEA dimming unit	IR31DIM	SW-R004-1.xx

### Approval documentation

Description	Document Name	Revision
Instruction Manual	SATLOG SL1200 Speed and distance over ground (SOG) Installation Manual	Rev 1812 2018-11-09
List of Test Reports	Table of Type Tests for SATLOG SL1200 and SD21	2018-12-14
Drawings and Photos	SL1200 SATLOG, Descriptions and Photos	2018-07-10
Parts List	SL1200 SATLOG Parts List	2018-03-02
System Description	SATLOG LS1200 Speed over ground (SOG) Speed log	2018-07-10
Operational Description	SATLOG Antenna Operational description	R0
Drawings and Photos	SATLOG Antenna Drawings and Photos	R0
Block Diagram	SATLOG Antenna Block Diagram	R0
Parts List	SATLOG Antenna Part List	R0
Hardware and Software Information	SATLOG Antenna HW and SW information	R1
Descriptions and Explanations	SATLOG Antenna, Navigation Sensor Descriptions and explanations	---



Date

2021-05-11

**Applied Testing Standards and Test Reports**

Testing Standard	Laboratory	Test Report Number / Version
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	Nemko	E17051.00, 2017-06-13
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	Nemko	E14223.00, 2015-01-15
IEC 62288 Ed. 2.0 (2014-07)		
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	DNV	Performance test for DL1 combined, 2013-10-03
IEC 62288 Ed. 1.0 (2008-07)		
IEC 61162-1 Ed. 4.0 (2010-11)		
IEC 61162-2 Ed. 1.0 (1998-09)		
IEC 61162-450 Ed. 1.0 (2011-06)		
IEC 62288 Ed. 2.0 (2014-07)	DNV GL	Performance test for ESN100, 2017-02-20
IEC 61162-1 Ed. 4.0 (2010-11)		
IEC 61162-450 Ed. 1.0 (2011-06)		
IEC 61162-1 Ed. 5.0 (2016-08)	BV	Performance test for ESN200, 2018-09-28
IEC 61162-450 Ed. 1.1 (2016-03)		
IEC 61162-450 Ed. 2.0 (2018-05)		
IEC 62288 Ed. 2.0 (2014-07)		
IEC 61162-450 Ed. 1.0 (2011-06) with AMD1 (2016-03)	BSH	BSH/4542/001/4143100/17-3, 2017-09-05
IEC 61023:2007	DNV GL	Performance test for DL2, DL21, 2015-02-13
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)		
IEC 62288 Ed. 2.0 (2014-07)		
IEC 61162-1 Ed. 4.0 (2010-11)		
IEC 61162-450 Ed. 1.0 (2011-06)		
IEC 61023 Ed. 3.0 (2007)	BSH	BSH 4612/4073131/17, 2017-06-26
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	Nemko	E16014.01, Rev. 01, 2017-04-21
IEC 61023 Ed. 3.0 (2007)	Skipper	SATLOG sea verification, P9123, 2018-07-21
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	TÜV Süd	75941567 Report 02 Issue 1, 2018-11-07
EN 60529:1992 + A2:2013		

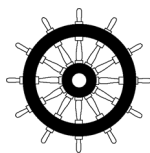
**Application / Limitation**

The equipment covered by this certificate is not capable of issuing alerts, hence testing according to IEC 62923-1 and 62923-2 is not applicable.

**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.

