DNV·GL

Certificate No:
MEDB00005E7

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Sound reception system

with type designation(s)
SR 8300 MkII and SR 8301 MkII

Issued to
ZENITEL NORWAY AS AVD HORTEN
HORTEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
item No. MED/4.58. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.86(70), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-23**.

Issued at **Høvik** on **2019-06-24**

DNV GL local station:
Sandefjord

Approval Engineer:
Steinar Kristensen

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

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 "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.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

NORWEGIAN ACCREDITATION PROD 019

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Job Id: **344.1-009379-1**
Certificate No: **MEDB00005E7**

Product description

SR 8300 MkII and SR 8301 MkII Sound Reception System, consisting of the following modules:

Hardware Modules:

Unit	Description	Part No.	External interfaces
Display Unit	SR 8300 MkII Display Unit, available in the following versions: 1. Vingtor Stentofon SR 8300 MkII or 2. Phontech SR 8300 MkII	 1021001150 4000019415	LAN: 1 x RJ 45, 100Mbps Power: 24V DC, 8W Closed contact: Mute input
Microphone Unit	SR 8301 MkII Microphone Unit	4000019416	

Software module:

- SR 8300 MkII SW v1.0.x

Application/Limitation

- The installation shall be installed and tested on board in accordance with the SR 8300MKII User Manual.
- The SR 8300 MkII and SR 8301 MkII Sound Reception System is found to comply with requirements for Sound Reception Systems for the additional class notations NAUT(OC) and NAUT (AW) as specified in the DNV GL Rules Pt.6, Ch.3, Sec.3 (July 2018).

Tests carried out

- Performance testing: ISO 14859 (2012) and DNV GL TA programme A.1/4.58
- Environmental testing: IEC 60945 (2002) incl Corrigendum 1(2008)
- Serial interface testing: IEC 61162-450 (2011)
- Presentation of navigation information: IEC 62288 (2014)

Type Approval documentation

DNV GL No	Doc. ID	Rev.	Description
21		2	Report: Zenitel, Phontech 8300MkII Type Approval tests
20	A100K11918	2019-03-08	Manual: , User Manual for Phontech 8300 MkII
19	E16052.00	2016-03-11	Report: Nemko, Display performance IEC 62288 for Phontech 8300
18	E16004.01	2016-03-15	Report: Nemko, IEC 60945 test report for Phontech 8300 and 8301
16	295456-1	2016-03-07	Report: Nemko, IEC 61162-450 test report for Phontech 8300 MkII

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.