

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000045G
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Bridge Navigational Watch Alarm System (BNWAS)

with type designation(s)
Bridge Navigational Watch Alarm System (BNWAS) NBW-1000

Issued to

New Sunrise Co.,Ltd.
Suzhou City, Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2022/1157,

item No. MED/4.57. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res. A.694(17), IMO Res. MSC.128(75), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO MSC.1/Circ.1474

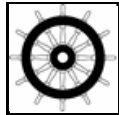
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-08-07**.

Issued at **Hamburg** on **2022-11-01**

DNV local station:
Shanghai

Approval Engineer:
Jörg Rebel



Notified Body
No.: **0098**

for DNV SE

Christine Mydlak-Roeder
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) 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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 SE 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.

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.



Product description

The Bridge Navigational Watch Alarm System (BNWAS) type NBW-1000 comprises of following components:

No.	Identification code	Name	Model/Version
1	NBW-1000	Control Unit	
2	NBW-1050J	Junction Unit	
3	NBW-1090RW	Reset unit (Bridge Panel)(watertight)	
4	NBW-1010A	Alarm Unit (Cabin Panel)	
		Optional equipment	
5	NBW-1090P	Motion detector	
		Software	
6	NBW-1000SW	Control Software	V2.xx (xx ≥ 02)

NBW-1000 User and installation manual V7.0

Application/Limitation

The Bridge Navigational Watch Alarm System (BNWAS) type NBW-1000 is to be installed according to manufacturer's instructions.

Type Examination documentation

Test reports:

NSR-NBW1000-TEST180530P (IEC 62616, IEC 62288, IEC 61162 series)

Ship Test 2011-045 and A13-019-WT (IEC 60945), NSR-NBW1000-TEST221012P (IEC 62923-1/-2)

Documentation:

NBW-1000 User and installation manual V7.0

Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Interface testing: IEC 61162-1 (2016) and IEC 61162-2 (1998)
- Presentation testing: IEC 62288 (2021)
- Bridge alert management testing: IEC 62923-1 (2018) and IEC 62923-2 (2018)
- Performance testing: IEC 62616 (2010) incl. Corrigendum 1 (2012)

Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

END OF CERTIFICATE