

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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)  
**NBW-1000**

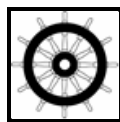
Issued to

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

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

Regulation **(EU) 2018/773,****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 **2018-08-08**DNV GL local station:  
**Shanghai**for **DNV GL SE**Approval Engineer:  
**Harald Bluhm**Notified Body  
No.: **0098****Sven Dudzus**  
**Head of Notified Body**

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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-008235-1**  
Certificate No: **MEDB000045G**

## Product description

List of equipment:

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)	
		<b>Optional equipment</b>	
1	NBW-1090P	Motion detector	
		<b>Software</b>	
1	NBW-1000SW	Control Software	V2.xx

## Type Examination documentation

Documentation:

NBW-1000 User and installation manual V4.0

Testreports:

Performance test report: (IEC62616, IEC62288, IEC61162 series) NSR-NBW1000-TEST180530P

Environmental test report: (IEC60945) Ship Test 2011-045 and A13-019-WT

## Tests carried out

Specified Standard(s)

IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)

IEC 61162-1 ed4.0 (2010-11) and ed5.0 (2016-08)

IEC 62288 Ed. 2.0 (2014-07)

IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012)

## Marking of product

According to Article 10 of the Council Directive (MED):

- The wheel mark shall be affixed visibly, legibly and indelibly to the product or to its data plate and, where relevant, embedded in its software. Where that is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.
- The wheel mark shall be affixed at the end of the production phase.
- The wheel mark shall be followed by the identification number of the notified body, where that body is involved in the production control phase, and by the year in which the mark is affixed.
- The identification number of the notified body shall be affixed by the body itself or, under its instructions, by the manufacturer or the manufacturer's authorised representative.

For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.

Each unit of equipment normally to be installed in a distance of 5 m or less from a standard or a steering magnetic compass shall be clearly marked with the minimum safe distance at which it may be mounted from such compasses.

Only for fixed equipment: Alternatively, the minimum safe distance may be given in the equipment manual.

END OF CERTIFICATE