

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)

le guardian 2025 (Trade name: Imtech guardian 2025, MSC-WAS, Rockson Guardian V11, U-WAS2000, Watch Guardian)

Issued to

**sm electrics GmbH services & more
Stakendorf, Germany**

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

Regulation **(EU) 2017/306,**

**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**

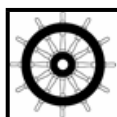
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-12-03**.

Issued at **Hamburg** on **2017-12-04**

DNV GL local station:
Hamburg

Approval Engineer:
Jan Reinecke



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

The Bridge Navigational Watch Alarm System type: le guardian 2025 consists of the following equipment:

- le guardian 2025 connecting module, type: LCM 210.24.0.0
- le guardian 2025 operating device, type: LOD 210.24.0.x
- NMEA Expansion Module, type: NMEA 210.24.0.0

Additional equipment:

- Watch Alarm Reset Unit WAR 220.2.1.0
- Watch Alarm Reset Unit WAR 220.2.0.0
- Watch Alarm Reset Button WAR 220.1.0.0
- Watch Alarm Reset Button WAR 220.1.0.1
- Watch Alarm Reset Unit WAR 220.3.0.0
- Watch Alarm Panel (Alarm Device) WAP 220.2.0.0
- Watch Alarm Panel (Alarm Device) WAP 220.4.0.0
- Watch Alarm Panel (Alarm Device) WAP 220.5.0.0
- Watch Alarm Extension buzzer WAB 220.2.0.0
- Watch Alarm Extension buzzer (Wall mounted IP56b) WAB 220.1.0.0
- Watch Alarm Motion Sensor Kit, WMS 220.2.0.0

Optional equipment:

- Failure Alarm Panel: FAP 220.1.0.0
- 1,3Ah battery buffered UPS DC24V, 10A: UPS 220.24.0.0
- 240VAC / 24VDC 2,5A power supply: WPS 220.24.0.0
- Dual power supply application version A: DC main / AC back-up: WPS AC/DC relay kit
- Dual power supply application version B: AC main / DC back-up: WPS AC/DC relay kit

Application/Limitation

none

Type Examination documentation

DNV GL No	Document Id	Rev.	Description
8	411.168.1	Rev. 0, 2011-08-29	Report: EMC tests on NMEA 210.24.0.0
7	409.137.1, 409.137.2	1.0, 2009-12-13	Report: Environmental Test Report of BNWAS le guardian 2025 acc. to EN60945:2002
6	411.168.3	2011-09-12	Report: Mechanical Strength Tests NMEA 210.24.0.0
5	411.168.2	2011-09-09	Report: Environment tests NMEA 210.24.0.0
4		2.06	Manual: BNWAS le guardian 2025 user manual
3	9065 17 19809 157	1.0	Report: Test of BNWAS acc. to IEC 60945, 61162, 62288, 62616

Tests carried out

Applicable tests according to

- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008),
- IEC 61162 series:
 - o IEC 61162-1 ed4.0 (2010-11) and ed5.0 (2016-08)
 - o IEC 61162-2 ed1.0 (1998-09)
- IEC 62288 Ed. 2.0 (2014-07),
- IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).

Marking of product

Job Id: **344.1-007355-1**
Certificate No: **MEDB000034A**

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.

END OF CERTIFICATE