

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000034A
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Bridge Navigational Watch Alarm System (BNWAS)

with type designation(s)
le guardian 2025 (Trade name: ample marine watch alarm le guardian 2025)

Issued to
sm electrics GmbH services & more
Schönberg (Holstein), Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7**,
item No. UK/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 **2027-12-03**.

Issued at **London** on **2024-03-01**

DNV local unit:
Hamburg – CMC
North/East

Approval Engineer:
Jörg Rebel



Approved Body No.: **0097**

for **DNV UK Ltd.**

Mydlak-Röder, Christine
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

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 the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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 type le guardian 2025 consists of following equipment:

<i>Designation</i>	<i>Type designation</i>
Process I/O:	
- le guardian 2025 connecting module	LCM 210.24.0.0
- le guardian 2025 operating device	LOD 210.24.0.x
- NMEA Expansion Module	NMEA 210.24.0.0
Reset and alarm devices:	
- 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 Button	WAR 220.1.0.2
- 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
Power supply	
- 240VAC / 24VDC 2,5A power supply	WPS 220.24.0.0
- 240VAC/24VDC power supply	SME-Q-PS-1AC/24VDC/10 100...
- Redundancy module	SME-YRM2.DIODE
Optional equipment:	
- Failure Alarm Panel	FAP 220.1.0.0
- 1.3Ah battery buffered UPS DC24V, 10A	UPS 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

Software version: LOD_yymmdd_F01.x (yyymmdd = date of minor software changes)

Application/Limitation

None

Type Examination documentation

DNV No	Document ID	Rev.	Description
10	211103	1.6	Report: sm electrics, Tests according to IEC 62923-1/-2
9	656	2010-04-28	Certificate: BSH, Compass safe distance for BNWAS le guardian 2025
8	411.168.1	2011-08-29	Report: CEcert, EMC tests for NMEA 210.24.0.0 according to IEC 60945, 9 and 10
7	409.137.1, 409.137.2	2009-12-13	Report: sm electrics/CEcert, Environmental and EMC tests for le guardian 2025 according to IEC 60945, 8.2 to 8.4, 8.7, 9 and 10
6	411.168.3	2011-09-12	Report: CEcert, Environmental tests for NMEA 210.24.0.0 according to IEC 60945, 8.7
5	411.168.2	2011-09-09	Report: CEcert, Environmental tests for NMEA 210.24.0.0 according to IEC 60945, 8.2 to 8.4
4	-	2.07	Manual: BNWAS le guardian 2025 for installation and operation
3	9065 17 19809 157	1.0	Report: DNV GL, Performance tests acc. to IEC 62616, IEC 62288 Ed.2 and IEC 61162-1/-2

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