



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **A-12238**

This is to certify that the
Bridge Navigational Watch Alarm System (BNWAS)

with type designation(s)
BW-800

Manufactured by
UNI-SAFE Electronics AS
KØBENHAVN, Denmark

is found to comply with
IMO Res. MSC.128(75) Performance Standards for a Bridge Navigational Watch Alarm System (BNWAS)
IMO Resolution MSC 191(79)
IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids
IMO Resolution A. 830 (19), Code on Alarms and Indicators, 1995
Det Norske Veritas' Rules for Classification of Ships

Application
See page 2.

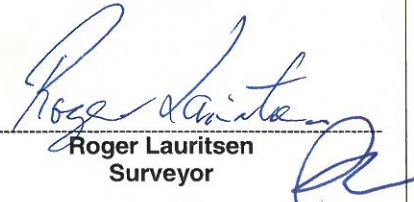
Høvik, 2011-03-04
for **Det Norske Veritas AS**


Frode Brattum
Head of Section



DNV local office:
Copenhagen

This Certificate is valid until
2014-12-31


Roger Lauritsen
Surveyor

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: A-12238
File No.: 847.70
Job Id.: 262.1-008529-2

Product description

See Appendix.
For latest revision of the Appendix, see <http://exchange.dnv.com/tari>

Application/Limitation

- Installation to be performed according to the manufactures Product Manual.
- BW-800 may fulfil the additional DNV requirements for BNWAS uses onboard ships with NAUT notifications, depending of system configuration and installation.

Type Approval documentation

See Appendix.

Tests carried out

- Performance testing, IEC 62616 (2010)
- Environmental testing, IEC 60945 (2002)
- Serial interface testing, IEC 61162 (2010)
- Presentation of Navigation information, IEC 62288 (2008)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage

Certificate Retention Survey

A retention survey is to be performed at least once every second year, and again upon renewal of this certificate. The scope of the retention/renewal survey is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society



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APPENDIX REV. NO. 1 (Page 1 of 1)

Product description

BW-800 consisting of the following component:

Hardware modules:

	Designation	SW ver.
• Bridge Watch main unit	800	1.x
• Bridge Watch Reset unit	801	
• Bridge Watch Alarm unit	802	
• Bridge Watch Backup Officer selector unit	803	
• Dual Motion Sensor	805	

Type Approval documentation

Doc. ID.	Title
DANAK-1910566	Test Report, Delta
16. Feb. 2010	BW-800 Performance Test report
2010 version 1A	Instruction and installation manual for BNWAS BW-800
E10089.00	Test Report, Nemko.

Place and date
Høvik, 2011-03-04

Roger Lauritsen



END OF CERTIFICATE