



Marine & Offshore

Certificate number: 28059/B0 MED

File number: NAV0/1053/1

Item number: MED/4.57

This certificate is not valid when presented without the full
attached schedule composed of 7 sections

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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2017/306 of 06 Feb. 2017

This certificate is issued to:

PRAXIS AUTOMATION TECHNOLOGY B.V.
LEIDERDORP - NETHERLANDS

for the type of product

BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM (BNWAS)
Mega-Guard - BNWAS

Requirements:

SOLAS 74 Convention as amended, Regulations V/18, V/19
IMO Res. A.694(17)
IMO Res. MSC.128(75), MSC.191(79), MSC.302(87)
MSC.1/Circ.1474
IEC 60945 (2002) + /Corr. 1 (2008),
IEC 61162-1 ed4.0 (2010-11), IEC 61162-2 ed1.0 (1998-09),
IEC 62288 Ed. 2.0 (2014-07),
IEC 62616(2010) + /Corr. 1 (2012).

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate is a renewal of certificate N° 28059/A1 EC expiring on 26/11/2017


This certificate will expire on: 26 Nov 2022

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV GRONINGEN, on 24 Oct 2017,

John Mondt



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The Bridge Navigational Watch Alarm System **Mega-Guard - BNWAS** monitors the bridge activity and detect operator disability which could lead to marine accidents.

Specifications

Operating Modes	Watch On, Watch Auto On, Watch Stand-by and Watch Off
System Controls	- Front Control Panel - Reset Box with Buzzer - Emergency Button Box - Buzzer Box for LOP
Digital Inputs	- 4 (Emergency In, Reset In, Autopilot In, ECDIS In)
Officer's Alarms Outputs	- 4 Officers
24VDC Outputs	- 5 (Visual Reset, Bridge Alarm, Crew Alarm, Config.1 Alarm, Config.2 Alarm)
Relay Outputs	- Fail relay output function
Front Panel	- Flat design - Back ground illuminated text
Redundant Ethernet link	- 2 RJ45 connectors
USB Port	- 1 USB port 2.0
Serial Link	- 1RS485 output to VDR via NMEA-0183
Main Power Supply	19-32 VDC / 1.25A maximum
Back-up power supply	19-32 VDC / 1.25A maximum
Software Version	1.28.0.0

2. DOCUMENTS AND DRAWINGS:

- 2.1 - PTD-BNWAS-Panel-R1.xx
- 2.2 - Drawing N02.98401-M01 Rev.C, dated 06/06/2012
- 2.3 - Drawing 93.0.970-F01 Rev. A, dated 31/10/2011
- 2.4 - Drawing 93.0.970-C01 Rev.A, dated 24/08/2011
- 2.5 - Drawing 93.0.375-M01 Rev.B, dated 06/06/2012
- 2.6 - Drawing 93.0.374-M01, Rev.A, dated 04/05/2012
- 2.7 - Drawing 93.0.354-M01, Rev.G, dated 06/06/2012
- 2.8 - Drawing 93.0.352-M11, Rev.B, dated 06/06/2012
- 2.9 - Drawing 93.0.352-M01, Rev.E, dated 06/06/2012

3. TEST REPORTS:

- 3.1 - Test Report Sebert Trillingstechniek B.V. N° M12.001-2012.7025, dated 12/03/2012
- 3.2 - Test Report Praxis Cold Endurance Rev.1.0, dated 04/06/2012
- 3.3 - Test Report Praxis Heat Stability Rev.1.0, dated 04/06/2012
- 3.4 - Test Report Praxis Dry Heat Rev.1.2, dated 05/06/2012
- 3.5 - Test Report Sebert Trillingstechniek B.V. N° M12.002-2012.7057, dated 10/05/2012, rev.01
- 3.6 - Test Report Bicon N°PRA-20120426-X1, dated 05/07/2012
- 3.7 - Test Report Bicon N°PRA-20120426-X1ANS, dated 05/07/2012
- 3.8 - Test Report Praxis EMC Rev.1.2, dated 04/06/2012
- 3.9 - Corrosion Document Praxis, dated 05/06/2012
- 3.10 - Test Report Praxis IEC-62288, dated 06/07/2012
- 3.11 - Test Report Praxis IEC-62616, dated 06/07/2012
- 3.12 - Test Report Bicon N°PRA-20110906-X1-CSD, dated 23/09/2011

4. APPLICATION / LIMITATION:

- 4.1 - As per requirements stated on first page.
- 4.2 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.3 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:
- Bridge Navigational Watch Alarm System **Mega-Guard - BNWAS**.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **PRAXIS AUTOMATION TECHNOLOGY B.V** has declared the following manufacturing site(s):

**ZIJLDIJK 24A 2352 AB LEIDERDORP
NETHERLANDS**

6. MARKING OF PRODUCT:

Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that: **PRAXIS Automation Technology B.V. - ZIJLDIJK 24A - 2352 AB LEIDERDORP - NETHERLANDS** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 28059/A1 EC issued on 15 May 2015 by the Society.

*** END OF CERTIFICATE ***