



UK Approved Body Authorised  
by the MCA

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

## Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

# UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

*This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.*

*This certificate is issued to:*

**PRAXIS AUTOMATION TECHNOLOGY B.V.**

ZIJLDIJK 24A, 2352 AB, LEIDERDORP, NETHERLANDS

*for the type of product*

**PROPELLER REVOLUTION INDICATOR**

Mega - Guard Propeller Revolution Indicator

### Requirements:

SOLAS 74 Convention as amended, Regulations V/18, V/19 and X/3

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 13

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 13

IMO Res.A.694(17)

IMO Res.MSC.191(79), MSC.302(87)

ISO 22554:2015,

IEC 60945 (2002) + /Corr. 1 (2008),

IEC 61162 series: IEC 61162-1 (2016) - IEC 61162-2 ed1.0 (1998-09) - IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11)

and am2 ed. 1.0 (2014-07) - IEC 61162-450:2018,

IEC 62288 Ed. 3.0:2021

IEC 62923-1:2018,

IEC 62923-2:2018

*The attached (schedule of approval) forms part of this certificate.*

*This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.*

**This certificate will expire on: 21 Oct 2029**

**Issued by Bureau Veritas SA UK Branch Office**

**(Approved Body 8517)**

At BV GRONINGEN, on 21 Oct 2024,

Olaf RUITER

***This certificate was created electronically and is valid without signature***



*Note 1: 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.*

*Note 2: 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.*

*Note 3: "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."*

*Note 4: In case limitations of use apply, these should be indicated in the Annex.*

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 is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://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 :**

Mega-Guard Propeller Revolution Indicator

### **2. DOCUMENTS AND DRAWINGS :**

- 2.1 - 5.7" TFT Operator Panel SCHEMATIC DIAGRAM dated 06/10/2016
- 2.2 - 5.7" TFT Operator Panel CONNECTION DIAGRAM dated 12/03/2014
- 2.3 - CONTROL PROCESSOR with TFT SCHEMATIC DIAGRAM dated 16/06/2016
- 2.4 - CP with 4 Ethernet Port SCHEMATIC DIAGRAM dated 19/10/2016
- 2.5 - 24 Mixed I/O Board SCHEMATIC DIAGRAM dated 17/02/2015
- 2.6 - 24 Mixed I/O Board MOUNTING AND DIMENSIONS dated 29/11/2012
- 2.7 - 8.4" TFT Operator Panel MOUNTING AND DIMENSIONS dated 21/04/2016
- 2.8 - CONTROL PROCESSOR MODULE MOUNTING AND DIMENSIONS dated 08/12/2015
- 2.9 - THRUSTER CONTROL SYSTEM OPERATOR GUIDE dated 15/01/2016
- 2.10 - Single and Multiple Indicator RISK ASSESSMENT dated 23/02/2017.
- 2.11 - Gap analysis IEC 61162-1 Ed5 and IEC 61162-450, dated 07-01-2021.
- 2.12 - Gap analysis for IEC 62288 ed3.0 dated 19-10-2022.

### **3. TEST REPORTS :**

- 3.1 - Type Approval 2011 TEST REPORT dated 21/06/2011
- 3.2 - Type Approval 2013 TEST REPORT dated 19/08/2013
- 3.3 - Type Approval 2015 - Set 1 TEST REPORT dated 22/02/2016
- 3.4 - Type Approval 2015 - Set 2 TEST REPORT dated 28/04/2016
- 3.5 - MED Approval test document 2016 Rev1\_3 dated 06/12/2016.

### **4. APPLICATION / LIMITATION :**

- 4.1 -As per requirements of Regulations stated on front page of this certificate.
- 4.2 - IEC 62923-1, IEC 62923-2, IEC 61162-2 and IEC 61162-3 are not applicable to the above products
- 4.3- The following component(s) shall comply with the requirements of Merchant Shipping (Marine Equipment) Regulations 2016, as amended, and be marked with the United Kingdom Conformity Mark:
  - Mega-Guard Propeller Revolution Indicator

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.
- 5.2 - For information concerning the production phase modules, **PRAXIS AUTOMATION TECHNOLOGY B.V.** has declared the following manufacturing site(s):

**PRAXIS AUTOMATION TECHNOLOGY B.V.**  
**ZIJLDIJK 24A 2352 AB LEIDERDORP**  
**NETHERLANDS**

### **6. MARKING OF PRODUCT :**

Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3:  
In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved 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 :**

It is **PRAXIS AUTOMATION TECHNOLOGY B.V.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

**\*\*\* END OF CERTIFICATE \*\*\***