

# 中国船级社

CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-HQ002264

# 型式认可证书 CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. LT15T00005

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/Product Approved

# 综合测量、监测报警和控制系统

Integrated Gauging, Monitoring & Alarm and Controlling System

综合测量、监控报警及控制系统

Integrated Gauging, Monitoring & Alarm and Controlling System

制造厂/ Manufacturer

# Praxis Automation Technology B.V.

Zijldijk 24A, Leiderdorp, the Netherlands

附加标志/ Notations

无/Nil.

# 认可标准/ Approval Standard

1.中国船级社《钢质海船入级规范》(2012)及其修改通报第4篇 第1章 第7篇 第1、2章 Chapter 1, Part 4 and Chapter 1 & 2, part 7 of CCS "Rules for Classification of Sea-Going Steel Ships" 2012 and its Amendments

2.中国船级社《钢质海船入级规范》(2012)及其修改通报第8篇第11章 Chapter 11, Part 8 of CCS "Rules for Classification of Sea-Going Steel Ships" 2012 and its Amendments

证书有效期至/ This Certificate is valid until

2019年9月28日 / Sep. 28, 2019

发证机构 Issued by

中国船级社鹿特丹办事处

CCS Rotterdam Office

签发日期

2015年9月29日

Date

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书页背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时,可以向我社检验机构咨询。

品质重形检验。有天各方对所持证中的具实性有象问的。可以问我在检验机构各项。 This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are the description of the certificate may inquire of the Society or its offices.





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中国船级社鹿特丹办事处 CCS Rotterdam Office

LT41598692

电话/Tel: +31(10)4334066 传真/Fax: +31(10)4334147

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Nº 15073656

#### 产品明细/ Product Description

综合测量、监控报警及控制系统/Integrated Gauging, Monitoring & Alarm and Controlling System

产品型号/Model

系统组成/Main Parts of System

: MEGA-GUARD

: Refer to attached particulars of

product

# 批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval No.

NP14A03397

# 产品认可试验报告/Approval Test Report

试验报告编号/Test Report No. 试验报告日期/Test Report Date

试验单位/Laboratory

试验单位地址/ Test Address 试验报告编号/Test Report No.

试验报告日期/Test Report Date

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试验单位/ Laboratory

93130-krg/emc 99-4334b :

1999-09-02

KEMA

:

Arnhem, the Netherlands

Mega-Guard-Type Approval augustus 2006-1

2006-05-29

PRAXIS

Leiden, the Netherlands

Mega-Guard-Type Approval 2008\_2 :

2005-08-02

:

Leiden, the Netherlands

Mega-Guard-Type Approval 2008\_3

2006-10-16

PRAXIS

Leiden, the Netherlands

Mega-Guard-Type Approval 2008\_4

2005-08-02

Leiden, the Netherlands

: Mega-Guard-Type Approval November 2008

2009-06-12

PRAXIS

Leiden, the Netherlands

7 Mega-Guard-Type Approval February 2009

2009-04-08

PRAXIS

Leiden, the Netherlands

Mega-Guard-type Approval December 2009

2010-09-09

PRAXIS

Leiden, the Netherlands

Mega-Guard E type approval January 2011

2011-06-21

PRAXIS

Leiden, the Netherlands

Mega-Guard E Type approval November 2013

2013-08-19

Leiden, the Netherlands

Mega-Guard-Type approval 2011-1

2012-02-15

Leiden, the Netherlands

Type Approval test document 2011 januari rev 1.2 (final -

signed)

2011-06-07

PRAXIS

Leiden, the Netherlands

试验单位地址/ Test Address 产品适用范围/Application of the Product

国际航行海船/International sea-going ship



### 认可保持条件/ Maintenance Requirements of Approval

1.型式认可后,如果产品及其重要零部件的设计、所用材料或制造方法有所改变,且影响到产品的主要特性、特征; 或产品的性能指标有所更改,且超过认可的范围,则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查,其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行,并且与认可时一致。如果质量管理体系发生改变,应经原体系认证机构审核 并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。 Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw

within the validity of the approval certificate, it cases occur that may cause the society to within the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内,本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核,以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。
Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and

arawings and documents approved by the Society. The Factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书,且无需颁发船用产品证书/等效证明文件的情况,证书获得者应接受本社每年一次的定期审核,定期审核日为认可证书期满之日对应的每一周年日,检查工作可在周年日的前后三个月内进行。 If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The periodical audit should be carried out within 3 months before and after the anniversary date which corresponds to the date of expiry of the relevant. 证书获得者应接受本社每年

#### 认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范逐件检验的产品/The product inspected one by one in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验,经检验合格后由本社颁发产品证书。

After approval, product inspection should be carried out one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate will be issued by the Society upon satisfactory inspection.

### 对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society: 无/Nil.

产品如下原材料和零部件应经本社检验,持有本社产品证书/The following materials and components of the product should be inspected and certificated by the Society: 无/Nil.

产品如下原材料和零部件的制造厂清单,经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval: 无/Nil.

#### 责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证,并且不对与本社授权或检验无关 的各方负责,不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

#### 其他/Others

本社已审核了产品厂无石棉声明,但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。 The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.





中国船级社鹿特丹办事处

CCS Rotterdam Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*

注: 本证书含有附页, 共3页

Note: The certificate is attached with 3 additional page(s)





#### Pariculars of System

- 1. The System consisting of:
  - 1) OWS Operator Work Station (also named 'All in one' Work Station) comprises the following components:
    - Model 6001 Marine Personal Computer; including redundant network interface (type 98.6.001.7xx and type 98.6.001.8xx)
    - TFT colour Graphic screen (type 98.6.02x.6xx)
    - Operator Keyboard (type 93.6.02x.x0x)
    - Engineering Keyboard (type 76.0.20x)
    - Keyboard/Tracker ball (type 93.6.02x.x0x)
    - Ethernet HUB/Router (type 76.0.81x)
    - Switch 24 port (type 76.0.84x)
    - Switch 8 port (type 76.0.85x)
    - 6010 Fieldbus Driver Board (type 98.6.010.7x0)

### for the following typical processes

- Alarm/Control and Monitoring
- Main Engine Control
- DP Control Station
- Electrical Power Management
- Pump and Valve Control
- Duty Alarm System
- Patrol Alarm System
- PID Control
- Graphic presentation of ship's data
- 2) EAS Extension Alarm System for the remote alarm indication in the cabin(s) and public space(s) consisting of:
  - Local Operator Panel (type 98.6.02x.6xx and type 93.0.96x)
  - 3 / 8 Channel LED Panel (type 93.0.31x)
  - Watch Entrance Unit (type 93.0.35x)
  - Reset Box (type 93.0.35x)
  - Bedroom Buzzer (type 93.0.36x)
- 3) PCU (also called DPU or SAU) Process Control Units containing the I/O Modules for processing of inputs, outputs, alarms and control loops, consisting of:
  - Model 6030, 12 x Digital input / 8/12 x Digital output executed as Din rail model (Type 98.6.030.7xx).
  - Model 6030, 18 x Digital input / 18x Digital output executed as Din rail model (type 98.6.030.80x).
  - Model 6032, 24 x Digital Input unit executed as Din rail model (type 98.6.032.7xx).
  - Model 6032, 36 x Digital Input unit executed as Din rail model (type 98.6.032.8xx).
  - Model 6034, 16 x Analog input /mixed input output executed as Din rail model (type 98.6.034.7xx)
  - Model 6034, 24 x Analog input /mixed input output executed as Din rail model (type 98.6.034.8xx)
  - Model 6049, Control Processor with redundant network interface executed as Din rail model (type 98.6.049.7xx).

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- Model 6049, Control Processor with redundant network interface executed as Din rail model (type 98.6.049.8xx).
- Serial Interface Converter (type 91.6.040.40x)
- Serial Interface Converter (type 91.6.040.80x)
- Sensor Supply Module (type 98.6.010.7xx)
- Power Distribution Panel (type 93.4.50x)
- LCD Operator Panel (type 93.0.96x)
- Alarm Panel 16 Channel (type 93.0.92x)
- Window Wiper Panel (type 93.0.95x)
- Window Wiper I/O-module (type 98.6.030.80x)
- USB to NMEA interface (type 91.6.040.801)
- 4) PMS-Power Management System consisting of:
  - All models mentioned under PCU
  - PMS input/output Din module (type 98.6.034.7xx)
  - PMS input/output Din module (type 98.6.034.8xx)
  - Display and Operating module (type 98.6.02x.6xx)
  - 7" TFT Operator Panel (type 98.6.02x.6xx)
  - 8" TFT Operator Panel (type 98.6.02x.64x)
- 5) BMS-Bridge Maneuvering System (also called PCS) consisting of:
  - All models mentioned under PCU
  - Bridge/Control Room control Lever and Telegraph Panel (type 98.6.021.621x)
  - 7" TFT Operator Panel (type 98.6.02x.6xx)
  - 8" TFT Operator Panel (type 98.6.02x.64x)
  - PCS Control levers (type 98.6.022.62xx, type 98.6.021.62xx)
  - PCS Azimuth Control Lever (type 98.6.022.62xx)
  - Emergency Stop DIN Module (type 98.6.034.7xx)
  - Bridge/Engine Room Telegraph Panel (type 98.6.02x.6xx)
  - Bridge Order Printer Panel (type 98.6.02x.63x)
  - Telegraph and Safety Panel (type 98.6.02x.63x)
  - Governor Panel (type 98.6.02x.60x)
  - Electronic Drive Unit (type 98.6.010.7xx)
  - Electronic Actuator (type 98.0.3xx)
  - BMS Indication / Command Panel (type 98.6.02x.62x)
  - BMS Command Panel (type p8.6.02x.64x)
  - BMS Indication Module (type 98.6.034.7xx)
- 6) DP-Dynamic Positioning System consisting of:
  - All models mentioned under PCU
  - 7" TFT Operator Panel (type 98.6.02x.6xx)
  - 8" TFT Operator Panel (type 98.6.02x.64x)
  - Joystick and Rate 0f Turn Panel (type 98.6.02x.6xx)
  - MRU (98.0.231.x)
  - Inclinometer (type 98.0.23x) for Anti Heeling Function
- 7) UPS Uninterruptible Power Supply comprising of:

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- UPS-250-DC 1x230Vac (type NI12.0201)
- UPS-500-DC 2x230Vac (type NI12.0302)
- UPS-500-DC 1x230Vac, 1x24Vdc (type NI12.0303)
- UPS-750-DC 2x230Vac (type NI12.0402)
- UPS-750-DC 1x230Vac, 1x24Vdc (type NI12.0403)
- UPS-1000-DC 1x230Vac (type NI12.0501)
- UPS-1000-DC 1x230Vac, 1x24Vdc (type NI12.0503)
- UPS-1500-DC 1x230Vac (type NI12.0601)
- UPS-1500-DC 1x230Vac, 1x24Vdc (type NI12.0603)
- Sensor Supply Module (type 98.6.010.7xx)
- Power Distribution Panel (type 93.4.50x)
- Praxis Earth Fault Detection Module (type 91.6.040.20x)

#### 2. Basic software/firmware:

Device	Pro-series	E-series	Description
MPC	CAMMAN.EXE		G-Data Marine Personal
	(rev.4.xx, 5.xx)	-	Computer
MPC	MEGA-GUARD.EXE	MEGA-GUARD	Data collection, central
	(rev.6.xx)	(rev.6.xx)	visualization and HMI
XP	60XX_xxx.HEX	-	Data processing
	(rev.1.xx, 2.xx, 3.xx, 4.xx)		
XP	DIN	app-xxx; loader-xxx	Data processing
	(rev. 2.x)	(rev2.x)	
Local Operator Panel	LOP_xxx.HEX	app-xxx; loader-xxx	Data processing, Local data
/LCD Panel	(rev. 1.xx)	(rev2.x)	visualization and local HMI
Functional keyboard	Functional keyboard	Functional keyboard	Dedicated (limited) operator
	(rev. 2.xx, 3.xx)	(rev. 2.xx, 3.xx)	keyboard
I/O Modules (DIN, DIN/DOUT, AIN,	IO Module	IO Module	Data acquisition
	(rev. 2.x)	(rev. 2.x)	
MIXED)	(Iev. 2.x)	(IEV. 2.X)	
			Stand-alone panels (Alarm
Stand-alone Panels	PANEL	PANEL	Panel and Window Wiper)
	(rev.1.x)	(rev.1.x)	data processing and
			visualization

