



MARINE DIVISION

Certificate number: 28060/A0 EC

File number: AP 1913

Annex A1 Item number: A.1/3.51

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

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

## EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment*

*as amended by Commission Directive 2010/68/EU*

*This certificate is issued to*

### PRAXIS AUTOMATION TECHNOLOGY B.V.

LEIDERDORP - NETHERLANDS

*for the type of product*

### FIXED FIRE DETECTION AND FIRE ALARM SYSTEMS COMPONENTS FOR CONTROL STATIONS, SERVICE SPACES, ACCOMMODATION SPACES, CABIN BALCONIES, MACHINERY SPACES AND UNATTENDED MACHINERY SPACES

PRAXIS Mega-Guard Fire Alarm System (FAS)

P/N: 93.0.940

#### Requirements:

SOLAS 74 convention as amended, Regulations II-2/7, X/3, Reg. II-2/7.2.2, Reg. II-2/7.4, Reg. II 2/7.4.1

IMO Res. MSC.97(73)-(2000 HSC code) 7, IMO Res. MSC.98(73)-(FSS code) 9, IMO MSC.1/Circ.1242

EN 54-2 (1997) including AC(1999) and A1(2006)

IEC 60092-504 (2001), IEC 60533 (1999)

*This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.*

**This certificate will expire on: 24 Aug 2017**

For BUREAU VERITAS Notified Body 0062,

At BV ROTTERDAM, on 24 Aug 2012,

Herman SPILKER



**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 B 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. 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 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 Division 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 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 PRAXIS Mega-Guard FAS (P/N 93.0.940) is a Microprocessor-based conventional Fire Alarm System.

#### **1.1 - Main Characteristics:**

<b>Capacity</b>	Up to 4 Loops Up to 32 Detectors per Loop (128 Detectors Max.)
<b>Associated Detectors</b>	Mega-Guard, Tyco and Consilium (Smoke & Heat Detectors, Manual Call Points)
<b>Communication Ports</b>	2 x Ethernet Ports (Main & Back-up), RS485
<b>Outputs</b>	Relays (Fail, Alarm, Siren)
<b>Power Supply</b>	2 x 24 VDC (Main & Back-up)
<b>Software Version</b>	v.1.25.x.x

### 2. DOCUMENTS AND DRAWINGS:

#### **From PRAXIS Automation Technology:**

Leaflet, Fire Alarm System  
Fire Alarm Panel - Operator Guide No. PTD-Fire-Alarm-Panel-R1.09 dated 16 Nov. 2011  
Drawing No. 93.0.940-M01 Rev. B dated 15-11-09  
Development Guidelines (Software), Doc. WI-PI-02 Rev. 07 dated 20 May 2006  
Release Notes for 1.25.1.0 dated 24.05.2011.

### 3. TEST REPORTS:

#### **From PRAXIS Automation Technology:**

Report Factory Acceptance Test (EN 54-2) - Fire Alarm Panel (93.0.940) dated 29.11.2010 (Witnessed by BV Surveyor)  
Test Report - FAT E-series, Project Nr. NI10-006 dated 05-09-2010  
Environmental Test Report Rev. 1.2 dated 09 Sep. 2010  
Mega-Guard-E, EMC Tests Report Rev. 1.1 dated 09 Sep. 2010  
Insulation Test Report Rev. 1.0 dated 08 Sep. 2010  
Dry Heat Test Report Rev. 1.0 dated 09 Sep. 2010  
Damp Heat Test Report Rev. 1.1 dated 09 Sep. 2010  
Low Temperature Test Report Rev. 1.0 dated 09 Sep. 2010.

#### **From TNO:**

TNO Vibration Test Report No. TNO-034-DTM-2010-00283 dated 25 Jan. 2010.

#### **From BICON:**

EMC Test Report No. PRA-20091214-X1 dated 2010-04-01  
EMC Test Report No. PRA-20100715-X1 dated 2010-08-02  
EMC Test Report No. PRA-20100805-X1 dated 2010-08-27.

### 4. APPLICATION / LIMITATION:

- 4.1 - As per requirements of Regulations stated on front page of the Certificate.
- 4.2 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.3 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 5 m.
- 4.4 - Only type approved detectors shown to be compatible with the units shall be used with them.
- 4.5 - Power supply sources wiring:  
The main (respective emergency) feeder shall run from the main (respective emergency) switchboard to the changeover switch without passing through any other distributing switchboard.
- 4.6 - 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.

### 5. PRODUCTION SURVEY REQUIREMENTS:

This certificate 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 B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

**6. MARKING OF PRODUCT:**

6.1 - According to EN 54-2.

6.2 - The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.

6.3 - When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

6.4 - Markings as per MED 96/98/EC.

6.5  $\square$  YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

**7. OTHERS:**

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.  
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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.

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