



Marine & Offshore
Division

Certificate number: 37353/A0 EC

File number: AP 4506

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 2012/32/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 (A) FAS

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 - IMO MSC.1/Circ.1313
Electrical installations in ships : EN 54-2 (1997)-AC(1999) and A1(2006) - IEC 60092-504(2001) incl. Corr. 1 (2011) - 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: 23 Jul 2019

For BUREAU VERITAS Notified Body 0062,

At BV GRONINGEN, on 23 Jul 2014,

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 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 & Offshore Division 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 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 (A) FAS** is a Microprocessor-based Addressable Fire Alarm System. Consisting of :

- FAS Operator Panel **93.0.960.8**
- Fire Alarm I/O Board **93.6.034.804**

1.1 - Main Characteristics FAS Operator Panel:

Model description	LCD Operator Panel
Part number	93.0.960
Software version	v.2.4.4.x
Mounting	Flush Panel
I/O connections	Detachable screw terminals for wires up to Ø 2.5mm ²
Supply voltage	18-32VDC
Power consumption	Per AFAS Operator Panel Max. 7W Per AFAS I/O Module Max. 5W Per Loop Max. 12W Per Siren Max. 12W

1.2 - Main Characteristics Fire Alarm I/O Board:

Board Type	Addressable fire alarm system I/O board
Part number	98.6.034.804
Software version	v.2.4.4.x
Number of loops	2
Number of sensors	126 per loop
Input signal type Switch/Monitor Module*	Smoke detector Heat detector Flame detector Manual call point
Number of relay outputs	4
Outputs Switch/Monitor Module*	Fire alarm Fault Relay 1 Relay 2

Note : * Switch/Monitor Module is an addressable digital input / output module

2. DOCUMENTS AND DRAWINGS:

From PRAXIS Automation Technology:

- Fire Alarm Panel - Operator Guide No. PTD_Mega-Guard_AFAS_Rev1_7[1], dated Oct 21, 2013.
- Drawing Package No. NPYY-XXX Rev. C dated 2013-08-20
- Report FAT, No. FAT_afas BV v0.3, dated May 09, 2014

3. TEST REPORTS:

From PRAXIS Automation Technology:

- Environmental Test Report Ship Automation System Rev.:1.3 for LCD Operator Panel, dated Sep 09, 2010
- Environmental Test Report Ship Automation System Rev.:1.2 for AFAS I/O Board, dated Aug 19, 2013

From S2T:

- Vibration Test Report No. M13.001-P13.001, dated July 01, 2013.

4. APPLICATION / LIMITATION:

- 4.1 - As per Requirements of Regulations stated on the front page of this certificate.
- 4.2 - The equipment fulfils the EMC requirements for installation on the Deck Zone.
- 4.3 - The equipment is not to be fitted in hazardous areas.
- 4.4 - Prior to fit on board, assessment of compatibility or connectability with fire alarm unit is to be performed.
- 4.5 - 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 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 B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

6. MARKING OF PRODUCT:

Markings as per MED 96/98/EC :

⊗ 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. - 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.

*** END OF CERTIFICATE ***