



Marine & Offshore
Division

Certificate number: 09859/D0 BV

File number: ACI 2500/073/001

Product code: 3789H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Autronica Fire and Security AS

TRONDHEIM - NORWAY

for the type of product

FIRE ALARM DISPLAY UNITS

Integrated Safety & Emergency Management System

AutroMaster ISEMS - Version 4.3

(For using with AutroSafe and Autroprime Interactive and BS-100 Fire Detection Systems)

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 09859/C1 BV expiring on 18/05/2016

This certificate will expire on: 18 May 2021

For BUREAU VERITAS,

At BV OSLO, on 05 Apr 2016,

Rune MARSTEIN

Rune Marstein



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. 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. ec

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BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

- Product model or type designation :
AutroMaster ISEMS - version 4.3

- Product description:

Integrated Safety and Emergency Management System intended to be used with the AutoSafe and Autoprime Interactive and BS-100 Fire Detection Systems.

1.1 - Supported Hardware / Protocols:

Technical specifications	
Compatible Platform*	PC based on x86
Resolution of Display*	1024 x 768 minimum (8 and 16 bit)
Required Memory*	512 Mb minimum
Required Drives*	HD - 10 Gb minimum CD-ROM
Required Ports / Interfaces*	Serial / RS-232, RS-486 Ethernet, Dual Ethernet / Network Installation
Supported Protocols	ESPA 4.4.4 ModBus RTU, ModBus TCP/IP ASAP, Saia, NMEA, Siemens S7 PLCs
Compatible Fire Detection Systems*	Autosafe Interactive (Ver. 3 & 4 - see § 1.2) BS-100 + Autoprime
Supported Emergency Lighting Systems*	DardoPlus, Dardo2
Operating System	CentOS 5
Software Version	4.3.x.x

*Note: Type approved equipment is to be used.

1.2 - Incompatibilities:

AutroMaster ISEMS v4.2.0 is not compatible with AutroMaster 5000 v3.3 and 3.1.1 and earlier
AutroMaster ISEMS does not work with AutoSafe v3.4.0 and earlier.

2. DOCUMENTS AND DRAWINGS:

Autronica Fire and Security:

- AutroMaster 5000- Program and Process Documentation, dated 99.12.01
- AutroMaster ISEMS - Release 4.2.0 - Release Notes dated 2010-03-26
- AutroMaster ISEMS - Product Datasheet, ref. 116-P-AMASTER-ISEMS/CGB dated 2010-07-01
- AutroMaster ISEMS - System Description, ref. 116-P-AMASTER-SYSTEM/XGB dated 2010-07-01
- AutroMaster ISEMS - Installation and Commissioning Handbook, ref. 116-P-AMASTER-INSTCOMM/IGB dated 2010-07-01
- AutroMaster ISEMS - Basic Configuration Handbook, ref. 116-P-AMASTER-BASICCONF/EGB dated 2010-07-01
- AutroMaster ISEMS - Advanced Configuration Handbook, ref. 116-P-AMASTER-ADVCONF/EGB dated 2010-07-01
- AutroMaster ISEMS - Operator's Handbook, ref. 116-P-AMASTER-OPERATE/FGB dated 2010-07-01.

For modification A1 version:

Autronica Fire and Security:

- RELEASE NOTES AUTROMASTER 4.3.1 SERVICE PACK 1, dated 2014-02-20

3. TEST REPORTS:

DNV test report N° 99-1484 Rev.1 dated Nov. 09.99.

FAT at Fincantieri (Oceania, Hull 6195) dated 2011-05-05 and witnessed by BV Surveyor.

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.
4.2 - Each application and configuration is to be submitted to the Society's examination prior to fitting on board.
4.3 - The system, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.
4.4 - 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.
4.5 - The associated Fire Detection and Alarm systems are not to be used for any other purpose except the closing of fire doors, and similar functions may be permitted at the control panel.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **Autronica Fire and Security AS** in compliance with the type described in this certificate.
5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
5.3 - **Autronica Fire and Security AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

Autronica Fire and Security AS
Haakon VII's gate 4
7483 TRONDHEIM
NORWAY

6. MARKING OF PRODUCT:

- 6.1 - Trade name and Date of manufacture and serial number.
6.2 - Alternatively, the marking may be presented on a display at equipment start-up.
6.3 - 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.
6.4 - 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.

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: **Autronica Fire and Security AS - Haakon VII's gate 4 - 7483 TRONDHEIM - NORWAY** 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.: 09859/C1 BV, issued on 16 May 2013 by the Society.

*** END OF CERTIFICATE ***