



Marine & Offshore

Certificate number: 09859/E0 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 4 ISEMS

(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 Marine & Offshore 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/D1 BV expiring on 18/05/2021

This certificate will expire on: 18 May 2026

For Bureau Veritas Marine & Offshore,

At BV OSLO, on 14 Mar 2021,

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 Marine & Offshore. 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 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 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:

- Product model or type designation :
AutroMaster 4 ISEMS

- Product description:

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

1.1 - Supported Hardware / Protocols:

Technical specifications	
Compatible Platform*	PC based on x86
Resolution of Display*	1920 x 1080 pixels
Required physical Memory*	4096 Mb minimum
Required Drives*	Minimum 100 GB
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, AutroCom, VDR, NMEA, Gessler
Compatible Fire Detection Systems*	Autrosafe Interactive (Ver. 3 & 4 - see § 1.2) Autroprime(Ver. 2) BS-100
Supported Emergency Lighting Systems*	DardoPlus, Dardo2
Operating System	Ubuntu 18.04 LTS or newer
Software Version	4.4.x

*Note: Type approved equipment is to be used.

1.2 - Incompatibilities:

AutroMaster 4 for Ubuntu is not compatible with earlier versions of AutoMasters.

AutroMaster 4 ISEMS does not work with AutoSafe v3.4.0 and earlier

2. DOCUMENTS AND DRAWINGS:

For modification D1 version:

Autronica Fire and Security:

- AutroMaster 4 ISEMS - Operator's Handbook, ref. 116-P-AMASTER-OPERATE/FGB Rev.B, dated 2016-03-30.
- AutroMaster 4 ISEMS - Product Datasheet, ref. 116-P-AM4UB/CGB, 2019-09-11.
- AutroMaster 4 ISEMS - System Description, ref. 116-P-AM4UB-SYSTEM/XGB dated 2020-03-12.
- AutroMaster 4 ISEMS - Installation and Commissioning Handbook, ref. 116-P-AM4UB-INSTCOMM/IGB dated 2019-09-11.
- AutroMaster 4 ISEMS - Release 4.4.0- Release Notes dated 2020-05-11.
- AutroMaster 4 ISEMS - Basic Configuration Handbook, ref. 116-P-AM4UB-BASICCONF/EGB, dated 2019-09-11.
- AutroMaster 4 ISEMS - Advanced Configuration Handbook, ref. 116-P-AMASTER-ADVCONF/EGB dated 2019-09-11.
- AutroMaster 4 Software Development plan, version 1.0, dated 2020-07-10.
- Test procedure AutroMaster ISEMS System test Performance test, No. AFS-07808, dated 2019-07-11.

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 together with the fire alarm system in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

4.4 - The supported hardware used for AutroMaster 4 ISEMS are to be type approved by the society.

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 and as such does not require a BV product certificate.

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.

5.4 - For information, **Autronica Fire and Security AS** has declared to Bureau Veritas the following production site(s):

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 - It is **Autronica Fire and Security AS'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.

7.2 - This certificate supersedes the Type Approval Certificate No. 09859/D1 BV, issued on 09 Feb 2021 by the Society.

*** END OF CERTIFICATE ***