



Marine & Offshore
Division

Certificate number: 22564/B0 BV

File number: AP 4063

Product code: 4206H

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

MARINELEC TECHNOLOGIES

Quimper - FRANCE

for the type of product

PUBLIC ADDRESS AND GENERAL ALARM SYSTEMS

General Emergency Alarm Control Panel type: AURIGA

Requirements:

BV Rules for the Classification of Steel Ships - Part C, Ch.2, Sec.3.

SOLAS 74, as amended, Regs. III/4, LSA Code, Chapter 7.2, IMO Res. MSC.97(73)-(2000 HSC Code), IMO MSC/Circ.808, IMO Resolutions A.830(19) and IEC 60945(2002).

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 will expire on: 19 Jan 2020

For BUREAU VERITAS,

At BV NANTES, on 19 Jan 2015,

Joel Gaurin



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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

General Emergency Alarm Control Panel
type: **AURIGA**

Specifications:

Protection Index:	IP 44 (front face)
Keyboard:	Multifunctions
Audible Alarm:	Internal Buzzer- 70 dB min.
Screen Printing:	Lexan (in 3 languages)
Main Power Supply:	24 VDC
Emergency Power Supply:	24 VDC
Consumption:	0.3 A max.
Protections:	Over-Intensity Resetting Fuse Accidental Reversal of the Power Supply Polarity
Electrical Connection:	18 Channels-pluggable Connector supplied (capacity 1 mm ²)
Outputs:	
- Main Power Supply	NC Dry Contact, Switching Capacity: 1A / 24 VDC
- Emergency Power Supply	
- Signal Fault	
Outputs:	
- Visual Signalling	NO Dry Contact, Switching Capacity: 1A / 24 VDC
- Acoustic Signalling	
- Public Address Shutdown	
Inputs:	
- General Alarm	NO Dry Contact
- Input "Fire Detection	
- Input "General Alarm Inhibition	
Output "VDR":	RS 485
Other Functions:	Dimmable Light Indicators (Day / Night Mode) Back-Lighted Front Face Light Indicators Test
Optional Module:	Information Light Column Control (ref.: BV Cert N° 21538/A0 BV)
Software versions:	V 0.2.

2. DOCUMENTS AND DRAWINGS :

2.1 - Marinelec Drawings:

- N° Auriga MEC TRI 0 Rev. 0, dated 25.10.06
- N° Auriga BOR TRI 1 Rev. 1, dated 29.01.07
- N° Auriga PE FR GB 0 Rev. 0, dated 25.10.06

2.2 - Marinelec Instruction Manual:

- N° Auriga MANU GB sans LC COF ref. 22564/A0.

3. TEST REPORTS :

Kenta Electronic Test Report N° 203 920 dated Sept. 2009.

4. APPLICATION / LIMITATION :

4.1 - As per requirements of Regulations stated on front page of the Certificate.

4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - To be installed in compliance with Regulations and Rules stated on front page of the Certificate.

4.4 - All cables for above system including their power supplies passing through high fire risk areas, and, in addition for passenger ships, through main vertical fire zones other than those which they serve, are to be arranged so that a fire in any of these areas or zones does not affect the operation of the service in any other area or zone. This may be achieved by either of the following measures:

- Cables of a fire resistant type complying with IEC 60331 are to be installed and run continuous to keep the fire integrity within the high fire risk area
- At least two-loops/radial distributions run as widely apart as is practicable and so arranged that in the event of damage by fire at least one of the loops/radial distributions remains operational.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **MARINELEC TECHNOLOGIES** 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 - **MARINELEC TECHNOLOGIES** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

MARINELEC TECHNOLOGIES
12 Rue Alfred Le Bars
29000 Quimper
FRANCE

6. MARKING OF PRODUCT :

- Maker's name or trade mark,
- Serial number of the units,
- Equipment type number or model identification under which it was type-tested.

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 system at any time and that **MARINELEC TECHNOLOGIES, Quimper - France** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the system and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 22564/A0 BV issued on 24 Dec 2009 by the Society.

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