



Marine & Offshore

Certificate number: 41414/B0 MED

File number: AP 4607

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This certificate is not valid when presented without the full attached schedule
composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2019/1397 of 06 Aug. 2019

This certificate is issued to:

MARINELEC TECHNOLOGIES

Quimper - FRANCE

for the type of product

**FIXED FIRE DETECTION AND FIRE ALARM SYSTEMS COMPONENTS [...] -
CONTROL AND INDICATING EQUIPMENT**
PHOENIX V2

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.36(63) -(1994 HSC Code)- as amended, 7

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7

IMO Res. MSC.98(73) -(FSS Code)- as amended, 9

IMO Res. MSC.391(95) -(IGF Code)- as amended, 11

IMO MSC.1/Circ.1242, MSC.1/Circ.1487, MSC.1/Circ.1528

EN 54-2:1997 incl. /AC:1999 & /A1:2006.

As applic., electrical and electronic installation in ships:

IEC 60092-504:2016

IEC 60533:2015

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 08 Jun 2025**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV SAINT-NAZAIRE, on 08 Jun 2020,

Francois LOPINOT



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 II 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 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. Bureau Veritas Marine & Offshore 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 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:

(per panel)

Addressable Fire Detection Panel : PHOENIX V2

Expansion Module : PHOENIX V2 EM

POWER SUPPLY	: 24VDC (main) + 24VDC (emergency)
DETECTION CAPACITY	: 2 loops of up to 126 addressable devices per loop
FUNCTIONALITIES	: Fire detection or repeater panel : Networkability up to 10 panels : 8 fire detection panels (PHOENIX V2 + PHOENIX_V2 EM) max. per network : Cause & Effects features : General Alarm control
INPUTS / OUTPUTS	: 1 digital input and 3 digital outputs (dry contacts) : 1 monitored siren output (24VDC, 1A max.) : 3 serial communication ports (RS485)
ENCLOSURE PROTECTION	: IP44
SOFTWARE VERSION	: V2.0, dated 16/03/2015

2. DOCUMENTS AND DRAWINGS:

From **MARINELEC:**

Date Sheet Network Presentation No. PHOENIX V2 NETWORK PRESENTATION FP GB REV 0.0, dated 21/01/2015.
Date Sheet Addressable Fire Detection Panel No. PHOENIX V2 FP GB REV 0.0, dated 21/01/2015.
User Manual No. PHOENIX_V2_USER_MANUAL_GB_REV0, dated 12/02/2015.
Installation Manual No. PHOENIX_V2_INSTALLATION_MANUAL_GB_REV0, dated 12/02/2015.
Cause & Effect Manual No. PHOENIX_V2_C&E_MANUAL_GB_REV0, dated 28/02/2015.
Software documentation No. PHOENIX_V2_SOFTWARE_DOCUMENTATION_REV0, dated 04/03/2015.
Network Configuration No. PHOENIX_V2 CONFIGURATION_TESTS_BV_REV0, dated 17/02/2015.
Networkable Addressable Fire Detection Panel No. PHOENIX V2_TEST DESCRIPTION REV0
Cause & Effect Presentation No. PHOENIX V2 C&E PRESENTATION FP GB REV 0.0, dated 21/01/2015
Drawings No. PHOENIX_V2_DRAWINGS_REV0, dated 25/03/2015.
Conformity to IEC 60533:2015 No. PHOENIX V2 - GAP ANALYSIS 01- IEC 60533 2015 ENG, dated 10/11/2015
Phoenix V2 Gap Analysis 02, dated 27/03/2019.

3. TEST REPORTS:

Issued by **LCIE:**

Test Reports No. 120772-641221 dated Aug 06, 2013

Issued by **KENTA:**

EMC & Environmental Test Reports No. 203 988 Ed 1.0 dated July 2013.

Issued by **MARINELEC:**

Functional Test Reports according to EN 54-2 No. PHOENIX_V2 FUNCTIONNAL TEST REPORT, witnessed by Bureau Veritas on Mar 18, 2015.

Issued by **EMITECH:**

EMC test report No. RC530-18-105931-3-A, dated Feb 06, 2019.

Climatic test report No. R240-BNN-18-105893-3/A(00), dated Feb 20, 2019.

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 Bridge and 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.
- 4.6 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:
- PHOENIX V2, PHOENIX V2 EM

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - 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 module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **MARINELEC TECHNOLOGIES** has declared the following manufacturing site(s):

MARINELEC TECHNOLOGIES
13 Rue Alfred Le Bars
29000 Quimper
FRANCE

6. MARKING OF PRODUCT:

Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

7.1 - It is **MARINELEC TECHNOLOGIES** '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 EC Type Examination Certificate No. 41414/A2 MED issued on 03 May 2019 by the Society.

*** END OF CERTIFICATE ***