



Marine & Offshore

Certificate number: 63531/A0 MED

File number: AP 4945

Item number: MED/3.51a

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) 2020/1170 of 16 July 2020

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**

PHILAE (Main panel), PHILAE_EM (Expansion module).

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: 05 Feb 2026

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV SAINT-NAZAIRE, on 05 Feb 2021,

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 :

Conventional fire detection Control and Indicating equipment:

- **PHILAE:** 4 zones fire detection panel .
- **PHILAE_EM:** 8 zones expansion module.

Power Supply	24VDC (main) + 24VDC (emergency)
Detection Capacity	4 zones (PHILAE) to 28 zones (PHILAE + 3 x PHILAE_EM)
Zone Capacity	1 to 32 detectors per section
Max Cable Length	200 meters
Input/Output	1 x separate general alarm input 4 x TOR Output 2 x Communication: VDR, Modbus RTU RS485
Protection	IP30
Operating temperature	+5 °C to 70°C
Software Version	V1.0

2. DOCUMENTS AND DRAWINGS :

MARINELEC:

- PHILAE conventional fire detection Data Sheet No. PHILAE_DS_FR_Rev.2, dated 09-09-2020.
- PHILAE Risk analysis No. PHILAE_ANALYSE_DE_RISQUES_REV0.0, dated 10-11-2020.
- PHILAE Schematic drawing No. PHILAE_REV1.1, dated 16-10-2020.
- PHILAE_EM Schematic drawing No. PHILAE_EM_REV1.
- User Manual No. PHILAE_MANUEL_UTILISATEUR_FR_REV0.3, dated 07-09-2020.
- Installation Manual No. PHILAE_MANUEL_INSTALLATEUR_FR_REV0.5, dated 09-09-2020.
- Software Quality Plan No. PHILAE_SW_QUALITY_PLAN_REV0, dated 01-09-2020.
- Hardware and Mechanical Study No. PHILAE_ETUDE_HARD_MECA_REV0.1, dated 16-10-2020.
- PHILAE Environmental Test Specification REV1, dated 14-09-2020.

3. TEST REPORTS :

EMITECH:

- Mechanical Test Report No. R240-20-101992-1/A(01), dated 23-12-2020.
- Climatic Test Report No. R240-20-101992-2/A(00), dated 05-01-2021.
- Climatic Test Report No. R240-20-105660-1/A(00), dated 06-01-2021.
- EMC Test Report No. RC530-20-101622-1, dated 06-11-2020.

ANPI:

- Test report of EN 54-2 No. LAB/BFS/REDI/598, dated 09-11-2020.

MARINELEC:

- PHILAE_JUSTIFICATION_INCLINAISON_DYNAMIQUE_ET_IP30_REV0, dated 27-10-2020.

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:
 - **PHILAE**

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 :

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.

*** END OF CERTIFICATE ***