



Type Approval Certificate

[Fire Detection and Alarm System]

Initial Approval 18 January 2011

Manufacturer Autronica Fire and Security AS
Bromstadvegen 59, N-7047 Trondheim, Norway

Product Description Type : AutroSafe 4
" See Appendix 1 "



Approval Condition " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.
Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships and EN 54-2, EN 54-4

This Certificate is valid until 17 January 2031
Issued at Busan, Korea on 11 March 2026



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME26010240525) and certificate No.(CPH19730-FD006).



KOREAN REGISTER

*General Manager of
Marine & Ocean Equipment Team*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 11 March 2026

A. Product Description

1. Product Specification

- 1) Product Description (Type : AutoSafe 4)
 AutoSafe 4 is fire detection and alarm control system and a maximum of 64 system units (panels, controllers) can be connected to the AutoNet in a standard system (depends on the type of configuration). A standalone system is also possible, using the Fire Alarm Control Panel BS-420.
 - Power supply : DC 24V (BS-420M/G, BS-430, BU-BV-420, BC-420)
 AC 115/230V 50/60Hz (BP-405)
 - Degree of protection : IP 32
 - Operating temperature : -25 ~ 70°C
- 2) System comprising
 - BS-420M : Main control panel (Marine applications)
 - BS-420G : Main control panel (Offshore applications)
 - BS-430 : Operator panel
 - BU-BV-420 : Repeater panel
 - BC-420 : Controller
 - BP-405 : Power cabinet
 - BU-110 : Fire brigade loop panel
 - BV-110 : Information loop panel
- 3) Software Version : 4.12.x

2. Approved Drawings and Documents

- 1) Data Sheet
 - No. Doc-1000300-2 (2022.09), Doc-1000422-1 (2022.09), Doc-1000419-2 (2022.09)
 Doc-1000460-4 (2022.09), Doc-1000396-3 (2022.09), Doc-1000467-1 (2022.09)
 Doc-1000553-4 (2022.09)

3. Test Reports, etc.

- 1) Test Reports
 - DNV Test Report No. 2009-3664/-3710 Rev.1 (EN 54-2 & EN 54-4)
 - DNV Test Report No. 2009-3691 Rev.6 (IEC 60092-504 & IEC 60533)
 - applica Test Report No. 20630 Rev.0 (EN 54-2)
 - applica Test Report No. 20887 Rev.8 (IEC 60092-504)
 - applica Test Report No. 21439 Rev.0 (IEC 60092-504)
 - Test Report SW release 4.8.0 Rev.0 (EN54-2 & EN54-4)
 - applica Test Report No. 21366 Rev.0 for SW release 4.10.0 (EN54-2)
 - Nemko Test Report No. 238015-2 r01 for BU-110 (EN 54-2)
 - Nemko Test Report No. 238015-3 r01 for BV-110 (EN 54-2)
 - Nemko Test Report No. E13284.02 for BU-110 & BV-110
 - DPL OBR CTM S.A. Test Report No. DPL/003/215/21, DPL/003/216/21 for BU-110 & BV-110
 - applica Test Report No. 30320 Rev.01 (EN54-2)
- 2) Software Release Notes
 - AutoSafe Software 4.8.0 dated 2016.03.30
 - AutoSafe Software 4.10.0 dated 2018.09.07
 - AutoSafe Software 4.11.0 dated 2020.12.03
 - AutoSafe Software 4.12.0 dated 2024.07.11

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and approved documents.
- 2) Degree of protection shall be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) Unless specially directed by the Administration, this approval is not to be construed as a substitute for a flag Administration's approval. In order to be installed on board the Korean flag vessels in Korea, Product is to be type approved by the Korean Government.

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- 4) The manufacturer should inform this Society of all kinds of revisions of the software. If the changes are recognized to affect functionality of the approved fire detection system, Type Test to confirm the reliability of the revised software may be performed in the presence of our surveyor.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is required.
- 2) In case where this system is installed on board, the system drawings for individual vessel are to be approved by this Society.

3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others

- 1) Test condition (IACS UR E10 Rev.7 basis)

Test	Condition	Remark
EMC	All locations including the bridge and deck zone	-
Temperature	-25 ~ +70°C	-
Vibration	Acceleration $\pm 0.7g$	-
Degree of protection	IP32	-

< End of Certificate >