



# TYPE APPROVAL CERTIFICATE

**Certificate No.** : CPH19730-FD005                      **Initial Approval** : 12th December, 2008  
**Product** : Fire Alarm Controller  
**Manufacturer** : Autronica Fire and Security AS  
Bromstadvegen 59, N-7047 Trondheim, Norway

**Product Description** : Type : Autroprime  
- BS-200M : Main control panel  
- BS-210 : Operator panel  
- BS-211 : Repeater panel  
- BU-210 : Fire brigade panel  
- BV-210 : Information panel  
- BUR-200 : Mimic driver  
- BC-250 : Controller unit

" 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 and entered in the "List of Approved Manufacturers and Type Approved Equipment".

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 11th December, 2023

Issued at Busan, Korea on 4th September, 2019



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 (ME19024629448) and certificate No.(CPH19730-FD005).



**KOREAN REGISTER OF SHIPPING**

*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*

## Appendix 1

# Product Description and/or Approval Condition

Certificate No : CPH19730-FD005

Date of Issue : 4th September, 2019

### A. Product Description

#### 1. Product Specification (Type : Autoprime)

- 1) BS-200M : Autoprime Fire alarm control panel
  - Power supply : 115/230 VAC 50~60 Hz (Batteries : 2 x 12V = 24V)
  - Protection class : IP 32
  - Loop : 4
  - Capacity\_loop units : 127 per loop
- 2) BS-210 (Operator panel) : an integrated part of the Fire Alarm Control Panel
  - BS-211 (Repeater panel) : 18-30 VDC, RS-485 Panel Bus
  - BU-210 (Fire brigade panel) : 18-30 VDC, RS-485 Panel Bus
  - BV-210 (Information panel) : 18-30 VDC, RS-485 Panel Bus
  - BUR-200 (Mimic driver) : 24 VDC, RS-485 Panel Bus
  - BC-250 (Controller unit) : 115/230 VAC 50~60 Hz (Batteries : 2 x 12V = 24V)
- 3) Software version : Autoprime 2.1.2

#### 2. Approved Drawings and documents

- Datasheet No. 116-P-BS200M/CGB, Rev. I (2018-03-09)
- Datasheet No. 116-P-BS211/CGB, Rev. B (2017-03-17)
- Datasheet No. 116-P-BU210/CGB, Rev. C (2019-03-06)
- Datasheet No. 116-P-BV210/CGB, Rev. C (2019-03-06)
- Datasheet No. 116-P-BUR200/CGB, Rev. D (2018-03-13)
- Datasheet No. 116-P-BC-250/CGB (2014-05-23)

#### 3. Test Reports, etc.

- Nemko Test report No. 86445 issued 2008-02-25 (IEC 60950-1)
- Nemko Test report No. 86445\_3 issued 2008-02-22
- Nemko Test report No. 86445\_4 issued 2008-02-22
- Nemko Test report No. E07357.02 issued 2008-02-22 (IEC 60945)
- Nemko Test report No. E07357.03 issued 2011-10-12 (IEC 60945)
- Nemko Test report No. E07357.05 issued 2013-06-06
- Nemko Test report No. E06144.06 issued 2013-05-14
- Nemko Test report No. E18106.00 issued 2018-12-30 (EN 54-2)
- Nemko Test report No. E18299.00 issued 2019-01-31
- Autoprime 2.1.2 Release Notes, dated 2019-03-18

### B. Approval Condition

1. This approval is granted on the basis of the test reports and the approved documents.
2. The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.
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.
4. The manufacturer should inform this Society of all kinds of revisions of the approved 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.
5. When this system is to be installed in the vicinity of a standard or a steering magnetic compass, it should have the minimum safe distance 1.5 m or more at which it may be mounted from such compasses.
6. In case where this system is installed on board, the system drawings for individual vessel are to be approved by this society.
7. Individual Product Certification is required.

< End of Certificate >