



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : HMB05219-FD002                      **Initial Approval** : 18th March, 2002  
**Product** : Smoke Detection System  
**Manufacturer** : Safetec, Brandes und Niehoff GmbH  
Arenskule 7-9, D-21339 Luneburg, Germany  
**Product Description** : Sample Extraction Smoke Detection System  
- Type : SDS-48  
- Power Supply : AC 220/230 V or 110/115 V  
" 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.

This Certificate is valid until 17th March, 2022

Issued at Busan, Korea on 22nd March, 2017



**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 : HMB05219-FD002

Date of Issue :22nd March, 2017

### A. Product Descriptions :

#### 1. System consists of :

- . SDS-0 : Smoke detection panel
- . SDS-4 : Smoke detection panel with up to 4 detection lines
- . SDS-8 : Smoke detection panel with up to 8 detection lines
- . SDS-12 : Smoke detection panel with up to 12 detection lines
- . SDS-E4 : Extension panel with up to 4 detection lines
- . SDS-E8 : Extension panel with up to 8 detection lines
- . SDS-E12 : Extension panel with up to 12 detection lines
- . SDS-E16 : Extension panel with up to 16 detection lines
- . SDS-EC16 : Extension panel with up to 16 detection lines
- . SDS-R48 : Repeater panel
- . SDS-REL : Relais box
- . SDS-MO440/MO441 : Fan unit(2 fans, 440 W each)
- . Explosion protection : EEx ia IIC T5
- . Smoke detector : Apollo XP95 I.S. -Part No. 55000-640

#### 2. Approved documents :

##### 1) Circuit diagram

- BG01.502, BG02.300, BG02.500, BG02.600, BG02.610, BG02.810, BG02.820, SDS02.081, SDS02.082

##### 2) List of material

- BG01.502, BG02.100, BG02.204, BG02.308, BG02.300, BG02.500, BG02.600, BG02.610, BG02.800, BG02.810, BG02.820, SDS02.100, SDS02.204, SDS02.208, SDS02.300, SDS02.301, SDS02.900

##### 3) Miscellaneous drawings

- SDS02.440.01.t, SDS02~FM.TC, SDS02.236.01.tc, G06.014.01.TCD

##### 4) Certificates and test reports

- BASEEFA 94(C)0465, Ex 95C2064, BAS02ATEX1289 & BAS00ATEX7087X
- Test report no. 01-09/2000 & 06-03/2003 by RMS
- EMC test report no. 00/0005-2 & 05/5166-1 by EMV Services

##### 5) Operational Manual

- DOK02.051 of 15th May, 2001

### B. Approval Conditions :

1. 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.
2. The manufacturer should inform this Society of all kinds of revisions of the approved softwares. 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.
3. In case where this system is installed on board, the system drawings for individual vessel are to be approved by this society.
4. Individual Product Certification is required during commission.

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