

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **59 877 - 13 HH**

Company **Autronica Fire and Security AS  
Haakon VII's Gt. 4  
7483 Trondheim, NORWAY**

Product Description **Fire Alarm System**

Type **AutroSafe 4**

Environmental Category **C, EMC1**

Technical Data /  
Range of Application **Standard configuration includes components as:  
BS-420M Fire Alarm Control Panel  
BC-420 Controller  
BC-440 Controller  
BS-430 Operator Panel  
BU -BV -420 Repeater Panel (Fire Brigade/Information panel)  
BP-405, Power supply  
BPS - 405 Power Unit  
BPS - 410 Power Unit  
Automaster 5000 System /Autronet connection /Redundant Ethernet  
Ethernet Switches (GL Type Approved)  
Safe Return To Port / Passenger vessel configuration additional:  
BN 180 Autrokeeper (Primary/Secondary Loop control / AutroSafe Dual Safety),  
BS-420M Primary Main & Secondary Stand-by  
Software Version 4.4.x  
BG-201 Flame Detector**

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003**

Documents **Test report :  
2009-3691 rev. 06, 2009-3664 Rev. 01  
2009-3693 rev. 01, 2009-3710 Rev. 01  
s. further reports on page 2 ""**

Remarks **None**

Valid until **2018-02-14**

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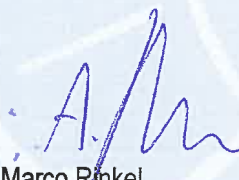
File No. **I.A.03**

**Hamburg, 2013-02-15**

Type Approval Symbol



**Germanischer Lloyd**

  
Marco Rinkel

  
Didier Girardin

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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Additional Documents: ""  
(EN54 compliancy according test reports)

Report No.2009-3710 Rev. 01  
Report No.2009-3664 Rev. 01  
Report No.2010-3362 (BN-180 AUTROKEEPER )  
Report No.2010-3355 Rev. 01 (POWER SUPPLIES BPS-405)  
Report No.2010-3386 Rev. 01 (EN 54-4 TESTING OF POWER SUPPLIES BPS-405 & BPS-410)

Type Test Protocol Date 31.01.2013

116-P-ASAFE-SYSTEMD/EGB Rev. D, 2010-09-14 System Description  
116-P-ASAFE-COMMISS/EGB Rev. D, 2011-09-14 Commissioning Handbook  
116-P-ASAFE-INSTALL/DGB Rev. G, 2011-12-06 Installation Handbook  
116-P-ASAFE-OPERATE/FGB Rev.C, 2011-09-14 Operator's handbook

**BG-201 Flame Detector Additional documents:**

Report No. E12044.00, EN 54-10:2002, EN 54-17:2005  
Report No. TE276617, EN 54-10:2002, EN 54-17:2005  
Report No. TE276617-SW-A1, EN 54-10 & clause 4.9 of 54-17  
SW.Doc. 850060/4.2/005 Rev. 1  
SW-changes Doc 850060/4.3/001 Rev. 1  
E122490/1.1 Test scheldules EN 54-10:2002 + A1:2005 & EN 54-17:2005

**Additional Certificates:**

MED-B-5290, 0575/yy Item A1./3.51 Appendix Rev. 5  
MED-B-5291, 0575/yy Item A1./3.51 Appendix Rev. 3  
MED-B-5292, 0575/yy Item A1./3.51 Appendix Rev. 0

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