Confirmation of Product Type Approval

Company Name: AUTRONICA FIRE AND SECURITY AS

Address: BROMSTADVEGEN 59P.O. BOX 5620 TRONDHEIM N-5620 Norway

Product: Fire Detection Control Equipment

Model(s): Addressable Field Units for Autrosafe and Autroprime fire detection system.

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0073267-PDA	27-AUG-2024	26-AUG-2029
Manufacturing Assessment (MA)	24-6708597	18-NOV-2024	17-NOV-2029
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
ABS classed vessels and offshore installations in accordance with the listed ABS Rules and International standards.

Description
Part 1: Fire Detectors - BD-200, BD-300, BD-500, BD-500/EX & /N; BH-200, BH-300, BH-500, BH-500/EX & /N; BH-220, BH-320, BH-520, BH-520/EX & /N; BWP-143/xxx, BWP-143A and BWB-110.

Part 2: I/O Units - BN-500/EX.

Part 3: Manual Call Points - BF-501/N & /EX, BF-502/N & /EX, BF-503/N & /EX, BF-500 V2/N, BF-500 V2/EX, BF-501, BF-502, BF-503

Part 5: Electronic Sounder - BBR-200.

Part 6: Ex Barrier Unit - BZ-500.

Part 7: Autrokeeper BN-180.

Part 8: Single monitored input unit BN-303 & BN-305.

Part 9: Single monitored input/output unit BN-304.

Part 10: Monitored fire alarm device control unit BN-307 & BN-305-D.

Part 11: Conventional loop interface BN-330A & BN-331.

Part 12: BS-100 Loop interface BSD-330

Note: The detector head carries an additional H in the product name, the listed products include the mandatory socket BWA-100.

Ratings
Power supply: 15 or 24 VDC,

Enclosure protection:

BF503 (N/EX): IP66 & 67;

BF-500V2/N, BF-500V2/EX: IP65

Ambient Temp: -25 deg C to +70 deg C

Please refer to technical data sheets for additional information.

Service Restrictions
1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2) EEx ia detectors and MCP must be connected to the approved barrier BZ-500.

3) ATEX certified equipment is not to be installed in hazardous areas on U.S. Flagged Vessels, unless it can be proven to have been tested to the IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG MI Notice 01-12 (February 7, 2012) refers.

Comments
1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2) Ex Certification as per Nemko Certificates no. 03ATEX217X issue 9, 03ATEX218X issue 11, IECEx NEM 11 0009X issue 6, IECEx NEM 11 0017X issue 4.

Notes, Drawings and Documentation
Drawing No. Doc-1004158, MEDB00006DJ.2, Revision: 2, Pages:

Drawing No. Doc-1004193, MEDB00006DK.2, Revision: 2, Pages:

Drawing No. Doc-1016734, DNV IP test report 315748 for MCP (Doc-1016734), Revision: 1, Pages:

Drawing No. Doc-1019101, Doc-1019101 BN-303_BN-304_BN-305_BN-307_BN-308_FW_release notes, Revision: 1, Pages:

Drawing No. Doc-1019094, Doc-1019094 Loop_Powered_Conventional_Inteface_BN330A_FW_release notes, Revision: 1, Pages:

Drawing No. Doc-1019096, Doc-1019096 Loop_Powered_Conventional_Inteface_BN331_FW_release notes, Revision: 1, Pages:

Drawing No. Doc-1000123, bf500v2ex_cgb new version, Revision: 4, Pages:

Drawing No. 03ATEX218X, 03ATEX218X, Issue 11, Revision: 11, Pages:

Drawing No. Doc-1003902, bf500v2n_cgb, Revision: 3, Pages:

Drawing No. Doc-1003606, Doc-1003606.8, Revision: 8, Pages:

Drawing No. Doc-1000125, bf501n_cgb, Revision: 3, Pages:

Drawing No. Doc-1000126, bf502n_cgb, Revision: 4, Pages:

Drawing No. Doc-1004303, MEDB00006DM.1, Revision: 1, Pages:

Drawing No. Doc-1004160, MEDB0000646.2, Revision: 2, Pages:

Drawing No. 03ATEX217X, 03ATEX217X issue 9, Revision: 9, Pages:

---------- Revalidation 2024 ----------

Drawing No. BF-500V2_N VS BF-500V2_EX_BJF Similarity, BF-500V2_N VS BF-500V2_EX_BJF Similarity, Revision: -, Pages: 1

Drawing No. Nemko E18217.00 TRF EMC ENV, test report, Date: 15-Nov-2018, NEMKO, Revision: -, Pages: 1

Drawing No. Technical Report 2009-3598, Rev, Technical Report 2009-3598, Date: 20-11-2009, Revision: 2, Pages: 1

Drawing No. bf300v2_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf500v2ex_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf501_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf501ex_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf502_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf502ex_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bf503_cgb, datasheet, Revision: -, Pages: 1

Drawing No. bnb330a_cgb, datasheet, Revision: -, Pages: 1

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 26/Aug/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
2024 Rules for Conditions of Classification, Part 1: 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

- Marine Vessels Rules (2024): 4-7-3/11, 4-8-3/Table 2, 4-8-3/13, 4-8-4/27.5, 4-9-9/3, 4-9-9/7, 4-9-9/15.7 Table 1

2024 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

- Mobile Offshore Unit Rules (2024): 5-2-5/1.1, 6-1-8/9 and 6-1-8/13 Table 1
- Facilities On Offshore Installations Rules (2024): 3-8/7

International Standards
IACS UR E10 Rev.8:2022

SOLAS II-2/7 (2024)

IMO FSS Code Chapter 9 (2015) as amended

IEC 60533:2015

IEC 60079-0:2017

IEC 60079-11:2011

IEC 60079-26:2014

EU-MED Standards
NA

National Standards
EN 54-2:1997+A1:2006

EN 54-4:1998

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 02-Dec-2024 3:43

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.