



Confirmation of Product Type Approval

Company Name: AUTRONICA FIRE AND SECURITY AS

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

Product: Manual Call Alarm

Model(s): BF-300V2, BF-500V2/EX, BF-510WP-H

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-LD1926540-PDA	11-DEC-2019	10-DEC-2024
Manufacturing Assessment (MA)	15-TR2939928	03-OCT-2015	02-OCT-2020
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3

Intended Service

ABS classed vessels and offshore facilities in accordance with the listed ABS Rules and International Standards.

Description

Addressable Manual call points with self verifying function and fully compatible with other fire detection panels such as the AUTROSAFE and AUTROSAFE IFG range. Models are as follow:

BF-300V2 standard version for indoor use;

BF-500V2/EX use in hazardous areas;

BF-510WP-H high current version for outdoor use.

The Manual Call Point, Type BF-500V2/EX is considered to comply with the requirements for the Intrinsically Safe Apparatus for the level of protection ia, Group IIC, Temperature Class T5

Ratings

Voltage: Standard and water proof 16 to 26 VDC, Ex version 15.75 VDC;

Working temperature: between -25 and -40 to 70 degree C;

Enclosure: Standard and Ex IP 44, Waterproof IP 55;

Intrinsically safe certified: Ex ia IIC T5 Ga -20°C ≤ Ta ≤ +70°C (BF-500V2/EX)

Service Restrictions

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

Comments

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

2. Where BF-500V2/EX MCP units are to be installed in a hazardous area the following requirements/notes are applicable:-
 - a. Installation is to be in accordance with any applicable conditions of certification detailed on the IECEX Certificate of Conformity.
 - b. Installation is to be in accordance with the requirements of the IEC 60079 series of standards (as applicable) or equivalent
 - c. The BF-500V2/EX MCP must be connected to an approved Autrosafe barrier BZ500.
 - d. Electrical equipment intended for installation in hazardous areas is to be of a certified safe type based on the class of the hazardous area at its location of installation as detailed in 4-8-3/13.1 of the ABS Marine Vessels Rules. Certificates in this regard are to be presented to the ABS Surveyor for verification on a case by case basis.
 - e. Equipment has been tested to the applicable IEC 60079 series standards by an independent laboratory listed on the United States Coast Guard Maritime Information Exchange Accepted Laboratories list, Approval Series 111.105 (Nemko AS, Oslo)

Notes, Drawings and Documentation

Drawing No. Nemko E18217.00 TRF EMC ENV, Test Report, Nemko Group Norway, Issue Date: 2018-11-15, Revision: 00, Pages: 38

Drawing No. 299312 TRF EMC r01 E15041.01, Electromagnetic Compatibility Test Report, Nemko Group Norway, Issue Date: 2016-02-19, Revision: 01, Pages: -

Drawing No. IECEX_NEM_11, IECEX Certificate of Conformity, Nemko Group Norway, Issue Date: 2016-05-11, Revision: 03, Pages: -

Drawing No. 03ATEX218X, EU-Type Examination Certificate, Nemko Group Norway, Issue Date: 2019-01-07, Revision: 09, Pages: -

Drawing No. 0333-CPR-075244, Constancy of Performance Certificate, Issue Date: 2018-02-12, Revision: 09, Pages: -

Drawing No. 0333-CPR-075245, Constancy of Performance Certificate, Issue Date: 2018-02-12, Revision: -, Pages: -

Drawing No. 0333-CPR-075247, Constancy of Performance Certificate, Issue Date: 2018-02-12, Revision: -, Pages: -

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 10/Dec/2024 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

- Marine Vessels Rules (2019) 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-7-2/3.4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/13, 4-9-9/7, 4-9-9 Table 1;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2019) 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-5-1/13, 4-5-1/17, 4-5-3/11.1.1(a) Ex i;
- Steel Barge Rules (2019) 1-1-4/7.7, 1-1-A3, 1-1-A4
- High-Speed Craft (2019) 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-6-1/3.21.1, 4-6-3/9.1.1(a) Ex i, 4-7-9 Table 9;
- Mobile Offshore Units (2019) 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/3.15, 4-3-1/15, 4-3-3/9.1.2(a), 4-3-3/9.1.3;
- Facilities on Offshore Installations (2019) 1-1-4/9.7, 1-1-A2, 1-1-A3

International Standards

- IMO FSS Code 2015 Chapter 9
- IACS UR E10 Rev6:2014
- IEC 60092-504, Ed 4.0: 2016
- IEC 60079-11, Ed 6.0:2011
- IEC 60533, Ed: 3.0: 2015
- IEC 60945 Ed 4.0: 08-2002

EU-MED Standards

NA

National Standards

- EN 50130-4:2011
- EN-54-11:2001/A1:2005
- EN 54-17:2005+AC:2007
- EN 60079-0:2012
- EN 60079-11:2012

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read 'James W. ...', is positioned above the printed text.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 12-Dec-2019 1:56

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.