



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 02/OCT/2020. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 18/NOV/2019 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

Product Name: Fire Detection and Alarm System
Model Name(s): AUTROPRIME

Presented to:
AUTRONICA FIRE & SECURITY AS
HAAKON VII'S GT 4
Norway

Intended Service: Autroprime Interactive Fire Detection System for use on ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description: Autroprime Interactive Fire Detection System consists of the following modules which can be connected via a redundant panel bus. The maximum number that can be connected to the panel bus is limited to 8 modules (additional displays or mimic drivers). BS-200M (Main Control Panel): Can be a stand-alone control panel or the master panel with additional modules connected to the panel bus. Maximum of 4 detection loops can be connected, 127 units per loop giving a total maximum of 508 loop units. BS-210 (Operator Panel): This module has functions such as control, monitoring and acknowledging alarms etc and can be integrated to the control panel or be mounted separately outside the cabinet. BS-211 (Repeater Panel): Identical to operator panel BS-210 with the exception of an alphanumeric keyboard. BU-210 (Fire Brigade Panel): Can be used to reset alarms, mute internal buzzer, silence sounders/bells etc. BV210 (Information Panel): All alarm handling and system events are monitored and most significant events are shown in the display. BUR-200 (Mimic Driver): Capable of driving 32 LEDs with series resistors on a mimic panel for additional indications of alarms. BC-250 (Autroprime Controller Unit): The BC-250 is an integrated Controller Unit for small-to-medium sized Autroprime Installations. In Combination with Operator Panel BS-210 it can serve as a standalone panel. The BC-250 is delivered with four detection loops.

Tier: 3

Ratings:	Power supply: 110/220V AC, IP32
Service Restrictions:	Unit Certification is required for this product in accordance with the MODU Rules 6-1-8/9 and 6-1-8/Table 1
Comments:	The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Each particular application and installation is to be specifically approved.
Notes / Documentation:	This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.
Term of Validity:	This Product Design Assessment (PDA) Certificate 14-LD388394-2-PDA, dated 19/Nov/2014 remains valid until 18/Nov/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
ABS Rules:	The Rules applicable to this assessment are: - ABS Steel Vessel Rules (2014) 1-1-4/7.7, 1-1-A3&A4, 4-7-3/11, 4-9-8/Table 1 - ABS Mobile Offshore Drilling Unit Rules (2014)1-1-4/9.7, 1-1-A2&A3, 6-1-8/9 and 6-1-8/Table 1 - ABS Steel Vessel Rules u90m (2014) 1-1-4/7.7, 1-1-A3&A4, 4-5-2/51.1 - ABS Offshore Support Vessel Rules (2014) 1-1-4/7.7, 1-1-A3&A4, 4-7-3/11 - Steel Vessels for Service on Rivers and Intracoastal Waterways (2014) 1-1-4/7.7, 1-1-A3&A4 - Bulk Carriers for Service on the Great Lakes (1978) 1-1-4/7.7, 1-1-A3&A4 - High Speed Craft (2014) 1-1-A2&A3 - Steel Barge Rules (2014) 1-1-A3&A4, 1-1-4/7.7
National Standards:	
International Standards:	IACS E10, SOLAS II-2/13, IMO FSS Code Chapter 9, IEC 61000-6-2, IEC60533, IEC/EN 60945, EN 54-4
Government Authority:	
EUMED:	
Others:	

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-LD388394-2-PDA	19/NOV/2014	18/NOV/2019



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.