



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 26/JUN/2016. 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 30/OCT/2017 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 System
Model Name(s): Elite RSM

Presented to:
FIREBOY-XINTEX, INC.
0-379 LAKE MICHIGAN DR.
GRAND RAPIDS
United States

Intended Service: Analog Addressable 2 Loop Marine Fire Detection Control Panel for Marine and Offshore Applications

Description: Elite RSM consists Control Panel , Initiating devices, Notification Devices, and accessories identified in the attached pdf component list. Refer VF3532-00-FB, Rev. E05.00 (Issue date 7/20/2012) Fireboy-Xintex Elite RSM Panel Installation Manual;

Ratings: Power Supply: Input (Supervised): 120 or 240 VAC, 50/60Hz Output Voltage: 24 VDC Regulated Output Current:0- 5.25 Amps (1.25 A reserved for battery Charger) Operating Environment: Low Temperature: 32 ±3°F (0 ± 2°C) High Temperature: 120 ±3°F (49 ± 2°C) Relative Humidity: 93% ±2% @ 90 ± 3°F

Service Restrictions: The Panel is to be installed in a clean and dry environment and not subject to shock or vibration. Unit Certification is not required for this product unless it is installed on a Mobile Offshore Drilling Unit in accordance with 6-1-8/13 Table 1 of the Rules for Building and Classing Mobile Offshore Drilling Units 2012. 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.

Comments: The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Tests and approval for hardware only. Each configuration and external connection is to be specifically approved. When installed as a Fire Detection System on a vessel subject to SOLAS requirements, the installation is to

be in accordance with the FSS Code- Chapter 9, Paragraph 2.1.2. Flame detectors are only to be used in addition to Smoke and Heat Detectors.

Notes / Documentation: Identifying Data: VF3532-00-FB, Rev. E05.00, Issue Date 20 July 2012, Fireboy-Xintex Elite RSM Panel Installation Manual; VF3510-00-FB, Rev. E03.00, Issue Date 4/12/2012, Fireboy-Xintex eView Installation Manual;

Term of Validity: This Product Design Assessment (PDA) Certificate 12-HS953921-PDA, dated 31/Oct/2012 remains valid until 30/Oct/2017 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: 2012 Steel Vessels Rules: 1-1-4/7.7, 1-1-A 3, 4-7-3/11 2012 MODU Rules: 5-2-5/1.1

National Standards: UL File: UOJZ.S25172 NFPA 72, UL 864, 9th Ed

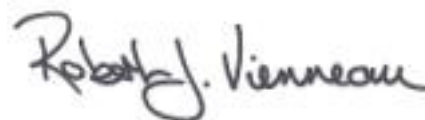
International Standards: IMO SOLAS 2009 Chapter II-2 Part C, Regulation 7.4.2 FSS Code Chapter 9.2.

Government Authority: US Coast Guard Approval Number: 161.002/A53/0; Issue Date : 26 July 2012; Expires: 5/7/2017

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	12-HS953921-PDA	31/OCT/2012	30/OCT/2017



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.