



CERTIFICATE NUMBER 20-YO1969673-PDA
EFFECTIVE DATE 3-MAR-2020
EXPIRATION DATE 2-MAR-2025
ABS TECHNICAL OFFICE Yokohama Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

ERL COMMERCIAL MARINE, INC.

located at

NEW ALBANY, IN, United States

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Level Indicating, Fixed Alarm Panel & Audio/Visual Annunciator

Model APM-2 (-3,-6,-8,-10 & -12)

This Product Design Assessment (PDA) Certificate 20-YO1969673-PDA, dated 3/March/2020 remains valid until 2/March/2025 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.

American Bureau of Shipping


Motohiro Tamura
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

ERLCOMMERCIALMARINE , INC.

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NEW ALBANY IN

United States 47150

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Web: www.erlmarine.com

Tier: 2 - PDA Issued

Product: Level Indicating, Fixed Alarm Panel & Audio/Visual Annunciator

Model: APM-2 (-3,-6,-8,-10 & -12)

Intended Service:

Marine & Offshore Application - Level Indication for Tank Vessels and Oil Barges.

Description:

Level Indication Audio/Visual Annunciator Alarm for Tank Vessels & Barges.

Rating:

Power: 24 VDC (Two 12 V batteries) NEMA/EEMAC Type 4, Stainless Steel, Non- Explosion Proof Fixed Alarm Panel utilizes STAHL Model 9251/02 dual channel intrinsically safe repeater relays.

Fully charged batteries provide approximately 50 hours of operation.

Model 9251 followed by /01 or /02, followed by -10, -20, - or -60 providing intrinsically safe circuits for use in Class I, Groups A,B,C and D; Class II, Groups E,F and G; Class III hazardous locations when installed in accordance with Installation wiring diagram No. 925601310.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser's 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:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Installation of intrinsically safe systems is to be in accordance with testing laboratory reports and manufacturer's specification and to the satisfaction of the attending surveyor. This is to include Bulkhead and Deck penetrations. See 4-8-4/27.7, 27.9 of the Marine Vessel Rules.
3. Sub-compartments containing intrinsically safe components, documentation are to be submitted with details for review for each application. See 4-8-3/13.1, 4-8-4/27.5.1 of the Marine Vessel Rules of the intrinsically safety and hazardous area installation.

Notes/Drawing/Documentation:

Supporting Documents:

Drawing No. 083AB090B-1, Proposed Modifications, Pages: -

Drawing No. 05-JE496556-X, MA CERTIFICATE, Revision: -,

Drawing No. 232Y137B-1 Schematic 6-Comp Bypass and ST Switch, Revision: -,

Drawing No. 232Y137B-2 Schematic 6-Comp Bypass and ST Switch Model, Revision: -,

Drawing No. CS LP3S-LP3E-LP3M (Rev102012), Streamline Low Profile Strobe Light - Models LP3S, LP3E, LP3M, Revision: -,

Drawing No. Werma Techn Data Sheet, Technisches Datenblatt/Technical Data Sheet, dated 2016-01-07/QM69-96

Drawing No. page-070-071, FIXED ALARM PANELS - APM-2 Operation of the APM-2 Audio/Visual Annunciator, Revision: -,

UL File E81680 last updated 31 August 2016

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 02/Mar/2025 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.

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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.

STANDARDS

ABS Rules:

2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/13.1; 4-8-4/27.5.1, 27.7, 27.9,
2020 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-3/9.3.1, 9.3.2

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA