



Confirmation of Product Type Approval

Company Name: HORNER APG, LLC

Address: 59 S. STATE AVE. IN 46201 United States

Product: Electrical, Operator Control Station

Model(s): XLe: Series HE-XE 1E0, 1E2, 1E3, 1E4, 1E5 XLt: Series HE-XT 1E0, 1E2, 1E3, 1E4, 1E5

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	18-HS1801414-PDA	11-DEC-2018	09-DEC-2023
Manufacturing Assessment (MA)	19-JE3665058	30-APR-2019	11-MAY-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

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Intended Service

Marine & Offshore Applications.

Description

Built-in I/O Networking and Removable Mass Storage for Industrial Applications. May include OEM Machine Control to Machine Monitoring in a Plant Environment. See attached document.

Ratings

Input Voltage: 10 to 30 VDC Maximum

Temperature: 0 to 50° C (XLe Operator Control Stations)

Temperature: -10 to 60° C (XLt Operator Control Stations)

Enclosure: Type 1 Nonincendive Electrical Equipment for use in Class I & II, Division 2 Groups A, B, C & D and Class III Division I and 2 Groups A, B, C & D Hazardous (Classified) Locations (XLE Operator Control Stations)

Enclosure: Type 4x Nonincendive Electrical Equipment for use in Class I & II, Division 2 Groups A, B, C & D and Class III Division I and 2 Groups A, B, C & D Hazardous (Classified) Locations (XLT Operator Control Stations)

For details see attached document.

Service Restrictions

1. 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.

2. Not to be used in Control, Monitoring and Safety Systems of Propulsion Systems (Machinery, Boilers and Vital Auxiliary Pumps).

3. The Operator Control Station is certified for installation in a Type 1 Enclosure (XLe) or a Type 4x Enclosure (XLt).

Comments

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

- The specific Functional and Operational Arrangements are to be approved for each Application.

Notes, Drawings and Documentation

UL508 File E180220-20070712 Issued date 20 July 2017

Drawing No. PCBPLC024, Rev. 2.3, XLe/XLt Cortex M4 CPU Board, Dated 19 Oct. 2017, 4 pages;

Drawing No. PCBPLC025, Rev. 1.6, XLe/XLt Ethernet Cortex M4 CPU Board, Dated 23 Oct. 2017, 4 pages;

Term of Validity

This Product Design Assessment (PDA) Certificate 18-HS1801414-PDA, dated 10/Dec/2018 remains valid until 09/Dec/2023 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

2018 ABS Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

2018 ABS Steel Vessel Rules: 4-8-3/13, 4-8-4/27.5.1

2018 ABS Rules for Conditions of Classification – Offshore Units and Structures: 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2018 ABS Mobile Offshore Drilling Unit Rules: 4-3-3/9.1.2

International Standards

C22.2 No. 14-13: 2013

C22.2 No. 213-15: 2015

EU-MED Standards

NA

National Standards

UL508, Ed. 2018

ANSI/ISA-12.12.01:2015

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "James J. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 18-Jul-2019 9:05

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.