



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

20-1968571-PDA  
03-Apr-2020  
02-Apr-2025  
Hamburg Engineering Department

## CERTIFICATE OF Product Design Assessment

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

**PHOENIX CONTACT GMBH & CO. KG**

located at

**FLACHSMARKTSTR. 8, BLOMBERG, Germany, D-32825**

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 I/O System**

**Model AXIOLINE**

**AXC F XT ETH 1TX**

**AXC F IL ADAPT**

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

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.

American Bureau Of Shipping

Efstratios Maliatsos, 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)

## **PHOENIX CONTACT GMBH & CO. KG**

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**Tier: 2 - PDA Issued**

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**Product:** I/O System

**Model:** AXIOLINE

AXC F XT ETH 1TX

AXC F IL ADAPT

**Intended Service:**

High speed realtime I/O system for control and monitoring applications on Marine and Offshore facilities.

**Description:**

AXC F XT ETH 1TX: Left-alignable Ethernet interface, for connection to a compatible modular controller from the Axiocontrol range.

AXC F IL ADAPT: Right-alignable Inline adapter terminal (INTERBUS master) for a PLCnext controller for setting up a PLCnext Inline station.

**Rating:**

Power Supply: 24V DC.

Degree of Protection: IP20.

Operating Temperature: -25 °C to 60 °C (AXC F XT ETH 1TX).

Operating Temperature: -25 °C to 55 °C (AXC F IL ADAPT).

**Service Restriction:**

1. Unit Certification is not required for this product. 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.
2. Phoenix Contact EMC filter ME-MAX-NEF/Quit20A needs to be connected to the equipment when installed in the bridge and deck zone.

**Comments:**

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Approval is for hardware only. Each particular application of the modules is to be specifically approved in conjunction with the relevant system in which they are used.

**Notes/Drawing/Documentation:**

Drawing No. 01, Monitoringdescription, Revision: 00, Pages: 1

Drawing No. 02, AXC F IL ADAPT Datasheet 1, Revision: 02, Pages: 1

Drawing No. 03, AXC F IL ADAPT 2, Revision: 00, Pages: 1

Drawing No. 04, AXC F XT ETH 1TX, Revision: 01, Pages: 1

Drawing No. 05, AXC F XT ETH 1TX 2, Revision: 01, Pages: 1

Drawing No. 06, Test reports EMC E191879E1, Phoenix Testlab Gmbh, 07.02.2020, Revision: 01, Pages: 1

Drawing No. 07, Test reports Environmental U191879E1, Phoenix Testlab Gmbh, 06.02.2020, Revision: 01, Pages: 1

Drawing No. 08, Datasheet Frianyl, Revision: 00, Pages: 1

Drawing No. 09, Datasheet Arnite, Revision: 00, Pages: 1

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

2020 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-3/Table 1, 4-9-9/7, 4-9-9/13, 4-9-9 Table 1 & Table 2

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA