



Certificate no.:
TAA00003EU

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Peripheral Equipment**

with type designation(s)
Orca Panel PC ORCA01ETCP6AC0000

issued to

R. Stahl HMI Systems GmbH
Köln, Nordrhein-Westfalen, Germany

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature	B
Humidity	B
Vibration	A
EMC	A
Enclosure	B

Issued at **Hamburg** on **2024-06-07**

This Certificate is valid until **2029-06-06**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Torsten Dzillak**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

The HMI's with the ORCA device platform are panel-mount devices (PM) and Operator Stations(OS). Depending on their technology (Panel PC/ Thin Client) with the task as Industrial PC with computer and monitor or Thin Client for remote control of PCs or virtual workstations.

For the approved version ORCA01ETCP6AC0000 can the following Family code applied:

ORCA=Family designation
01=Family hardware revision
E=Devices for Zone1, Zone 21, EPL Gb, DB
TC=Thin Client/ Panel PC
P-E-Box PRO
6=Display size 6 (22")
AC=AC power supply
00=no fibre optic
00 no card reader

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems. Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Product certificate

Each delivery of the application system is to be certified according to Pt.4 Ch.9 Sec.1. The certification test is to be performed at the manufacturer of the application system according to an approved test program before the system is shipped to the yard. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

Test Reports:

Test Report No.: U240054E1- 2nd version; E240054E1; S240054E1.

Documentation:

List of Type Approval documentation-TAA00003EU_Overview_Documents_Rev.00; Operating Instructions ORCA device Platform Version 01.00.05 dated 2023-09-01, Test Description Monitoring V 01.04; IECExTest Report US/UL/ExTR23.0008/00 2023-04-04

Drawings see document list containing (layouts, component diagrams, part lists, schematics, placement diagrams)

Initial type approval audit 2024-05-02; block diagram xxA E-Box Pro

Tests carried out

Applicable tests according to Class Guidance DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

Model name
Manufacturer name
Serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

Ensure that type approved documentation is available

Inspection of factory samples, selected at random from the production line (where practicable)

Review of production and inspection routines, including test records from product sample tests and control routines

Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications

Review of possible changes in design of systems, software versions, components, materials and/or



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performance, and make sure that such changes do not affect the type approval given

☐ Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE