

TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00001HS
Revision No:
8

This is to certify:

That the Peripheral Equipment

with type designation(s)
RSTi EP I/O-System

Issued to

Intelligent Platforms, LLC
Charlottesville, VA, USA

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.

Location classes:

Temperature	D
Humidity	B
Vibration	B
EMC	B
Enclosure	A

Issued at **Hamburg** on **2025-04-14**

This Certificate is valid until **2028-07-30**.

DNV local unit: **Essen**

Approval Engineer: **Dariusz Lesniewski**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

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 modular RSTi-EP remote I/O system supports common fieldbus systems and conforms to IEC 61131-2.

Up to 64 active I/O modules can be combined in a RSTi-EP remote station.

The following components belong to the RSTi-EP product series:

- Fieldbus coupler (gateway)
- Active I/O modules
- Passive I/O modules
- Functional safety modules
- Mechanical fixing elements (end bracket, end plate)

Fieldbus coupler

Part name
EPXPNS001
EPXPNS101
EPXETC001
EPXEIP001
EPXMBE101
EPXMBE001
EPXPBS001

AUX-Module

EP-711F
EP-751F
EP-700F
EP-710F
EP-750F

Digital Input

EP-1214
EP-12F4
EP-1218
EP-1318
EP-125F
EP-153F
EP-12A8

Digital Output

EP-2214
EP-2614
EP-2218
EP-225F
EP-2634
EP-291F
EP-2924
EP-22A4

230V

EP-2814
EP-2714
EP-1804
EP-1813

Analog Input

EP-3124
EP-3164
EP-3264
EP-3664
EP-3704
EP-3804
EP-3368
EP-3468
EP-32A4
EP-5714
EP-3914

Analog Output

EP-4164
EP-4264
EP-42A2

Power-Feed

EP-7631
EP-7641

Counter

EP-5212
EP-5112
EP-5111
EP-5121

Special functions

EP-5311
EP-8310

Digital Pulse Width Modulation Modules

EP-5422
EP-5442

Communication Modules

EP-5261

Flammability rating UL94: V0

Type of connection: Push In

Approval Conditions

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 RU SHIP Pt.4 Ch.9 Sec. 1.

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. 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.

Application/Limitation

Corrosion test (salt mist) was not carried out. Compliance with the IEC 60945 in this regard to be considered case-by-case.

Type Approval documentation

Documents package as the Job Id. 262.1-021947-7

Products data sheet: 10.19 GFA-2103

Product Information (extension 2025): GFK-2957F, GFK-2962N, GFK-2961G, GFK-2960M, GFK-2959J

Tests carried out

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

Applicable tests for protected equipment according to IEC 60945, 4th edition (2002).

(Application/Limitation to be observed)

Marking of product

The products to be marked with:

- manufacturer name
- part name / part no.
- serial no.
- hardware version

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 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 at renewal of this certificate.

END OF CERTIFICATE