



Certificate No.

03-002205/031915

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

Programmable Control and Automation Systems iE 250, iE 350, iE 650 and iE 7

MANUFACTURER:

DEIF A/S
Frisenborgvej 33, DK-7800 Skive
DENMARK

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS RULES FOR THE CLASSIFICATION OF SHIPS

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2030-03-29**

Place and date: Split, 2026-03-30



Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

The DEIF iE 250, iE 350 and iE 650 are a series of products.

The iE 250 and iE 350 are a versatile and modular-designed controllers for marine applications, offering an extensive range of control, protection and supervision features. Applications range from generator control and protection to integrated power management systems. The iE 250 and iE 350 may be configured as "Marine" controllers with Core sw package or Power Management sw package or as PLCs.

The iE 650 PLC is a PLC-based programmable automation controller (PAC) with EtherCAT based I/O modules.

The products offer a range of external I/O units or expansion racks with additional modules.

The iE 7 display is a local human-machine interface (HMI) used for monitoring, control and alarm handling of the system.

APPLICATION / LIMITATIONS:

CRS Rules for the classification of ships.

The scope of this certificate is limited to hardware. Software and cyber security certification are covered by separate approvals.

Product certification is required. Inspection and testing shall be witnessed by a CRS surveyor. Documentation of the actual application shall be submitted in accordance with the CRS Rules for the Classification of Ships, Part 12, Chapter 2.10, Annex A – Summary of documentation submittal.

TYPE APPROVAL DOCUMENTATION:

Documentation:

- iE 250 Data sheet, Ref.: 49212406290
- iE 250 Marine data sheet, Ref.: 4921240655G
- iE 250 PLC data sheet, Ref.: 4921240658F
- iE 250 Installation instructions, Ref.: 4189341417E
- iE 350 Marine data sheet, Ref.: 4921240657F
- iE 350 PLC data sheet, Ref.: 4921240659E
- iE 350 Marine Power management installation instructions, Ref.: 4189341393E
- iE 650 PLC data sheet, Ref.: 4921240662B

Test Reports:

- EPC 929 iE 7 A - tests witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2025-01-15, pages: 174
- EPC 929 iE 7 B - tests witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2025-01-15, pages: 240
- EPC 929 iE 250 A - tests witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-21, pages: 202
- EPC 929 iE 250 B - tests witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-23, pages: 147
- EPC 929 iE 350 A - tests Witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-31, pages: 104
- EPC 929 iE 350 B - tests Witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-24, pages: 125
- EPC 929, 398-01 iE 650 AMC 600 A - tests Witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-27, pages: 132
- EPC 929, 398-01 iE 650 AMC 600 B - tests Witnessed DNV, IACS E10 Testing, DEIF laboratory, dated 2024-05-27, pages:164

MARKING OF PRODUCT:

The Manufacturer, type designation, main data and serial number.

CONDITIONS FOR CERTIFICATION:

Any modification of the hardware affecting product performance, functionality or compliance shall be validated and approved by CRS prior to release.