

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Programmable Electronic System**

with type designation(s)

Distributed Input / Output Units ET 200B, ET 200C, ET 200L, L-SC and IM-SC, ET 200M, ET 200S, ET 200X, SC, ET 200 eco, ET 200 pro; ET200 eco PN

Issued to

**Siemens AG DF FA AS SIMATIC Type Test
Amberg, Bayern, Germany**

is found to comply with

DNV GL 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 GL.****Location classes:****Temperature A*, D****Humidity B****Vibration A, B*****EMC A****Enclosure Required protection according to DNV GL Rules shall be provided upon installation on board***** see Application/Limitation**Issued at **Hamburg** on **2018-10-18**for **DNV GL**This Certificate is valid until **2023-10-17**.DNV GL local station: **Augsburg**Approval Engineer: **Heinz Scheffler**

Joannis Papanuskas
Head of Section

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.



Job Id: **262.1-014721-4**
Certificate No: **TAA00001AR**
Revision No: **1**

Type Approval documentation

Test reports: TAA00001AR List of Test Reports Rev01

Documents: Operating Instructions 45E01250250-06; ET 200M operating instructions EWA-4NEB 780600601-08; Function Manual A5E03461486-AB; Operating Instructions ET200pro A5E35873416-AA. Internal Drawing No. A5E46062963A, Rev.001

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

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 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