



CERTIFICATE NUMBER

01-HG239415-7-PDA

DATE

21 October 2013

ABS TECHNICAL OFFICE

Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
SIEMENS AG, INDUSTRY SECTOR - D-92224 AMBERG

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: **Industrial Communication Component**

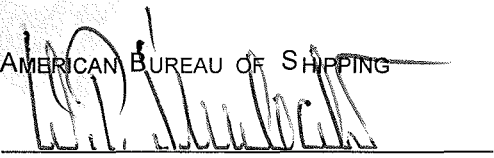
MODEL: **SIMATIC NET**

This Product Design Assessment (PDA) Certificate 01-HG239415-7-PDA, dated 21/Oct/2013 remains valid until 20/Oct/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING


Wulf-Peter Senebald
Engineer

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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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MA Certificate No.: 11-HG2041761-X

PRODUCT:
Industrial Communication Component

MODEL:
SIMATIC NET

Intended Service:

Automation Systems (Monitoring and Control Functions) on AMS, ACC, ACCU, ABCU classed vessels.

Description:

Components: OBT, BT, OSM, ESM, Scalance (6GK5 101/ 104-2/ 106-1/ 108/ 202-2 IRT/ 204/ 206/ 208/ 302/ 306/ 320/ 324/ 408/ 414/ 491/ 492/ 495/ 496/ 528/ 744/ 788), Scalance (6GK5 005/ 112/ 116/ 124/ 212/ 216/ 224/ 307/ 308/ 310/ 784), W786 (EAP-W1-RJ-E1/I1, EAP-W2-RJ-E2/I2, EAP-W3-RJ-E3, EAP-W1-MM-E1/I1, EAP-W2-MM-E2/I2, EAP-W3-MM-E3) S30122-X8000-xxx (EAP-W2-RJ-E2/I2), PS Power Supply (6GK5 791), Modular Outlet (6GK1 901), IE/PB Link (6GK1 411), Security Modules (6GK5 602/ 612/ 613), OLM (6GK1 503), Module (6GK5 991/ 992/ 993), CSM Module (6GK7 277/ 377), S7-1200 CM (6GK7 242/ 243).

Ratings:

Supply Voltage: 24V DC, 100V - 240V AC.

Service Restriction:

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.

- 1.) For use in bridge and deck zones, Scalance, PS Power Supply, Modular Outlet and IE/PB Link units are to be connected to filters having a characteristic of ($I=3A$, $C=2 \times 0.47 \mu F + 2 \times 4700 pF$, $L=4 \times 4.7 mH$).
- 2.) Components with 24 V DC power supply are to be used in conjunction with lightning protection units.
- 3.) Scalance 6GK5 744/ 788 are only to be used in an environment where the Wireless LAN communication does not interfere with other equipment or systems.
- 4.) Security Modules 6GK5 602/ 612/ 613 are only to be used with Ferrit 24V DC, type 74271222 (Wuerth).
- 5.) Installation of the units, as per manufacturer's instructions.

Comments:

Each particular application and installation is to be specifically approved in conjunction with the relevant system in which the components are used.

OSM, ESM, Scalance 6GK5 414/ 491/ 492/ 495/ 496/ 744/784/786/788 units only for S7-300 profile rail or wall mounting. Scalance 6GK5 408 unit only for S7-300 profile rail or for 35 mm rail mounting. Scalance 6GK5 101/ 104-2/ 106-1/ 108/ 202-2 IRT/ 208/ 005/112/ 116/ 124/ 212/ 216/ 224/ 307/ 308/ 310 and PS Power Supply units only for S7-300 profile rail, 35 mm rail or wall mounting. Modular Outlet units only for 35 mm rail or wall mounting. IE/PB Link units only for S7-300 profile rail mounting. OLM unit only for 35 mm rail mounting.

Notes / Drawings / Documentation:

SIEMENS AG, INDUSTRY SECTOR

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

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STANDARDS**ABS Rules:**

2013 Steel Vessel Rules 1-1-4/7.7, 4-9-6/3.7/3.9, 4-9-7/7/13

National:

NA

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA