

ABS

CERTIFICATE NUMBER

01-HG239415/5-PDA

DATE

10 December 2008

ABS TECHNICAL OFFICE

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
SIEMENS AG, INDUSTRY SECTOR, I IA AS RD ST TT

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

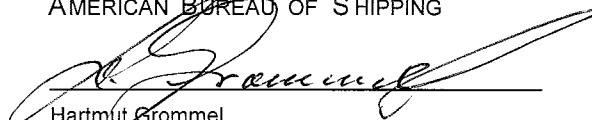
PRODUCT: Industrial Communication Component

MODEL: SIMATIC NET

ABS RULE: 2008 Steel Vessel Rules 1-1-4/7.7, 4-9-6/3.7/3.9, 4-9-7/7/13

OTHER STANDARD:

AMERICAN BUREAU OF SHIPPING



Hartmut Grommel
Engineering Type Approval Co-ordinator

SIEMENS AG, INDUSTRY SECTOR, I IA AS RD ST TT

WERNER-VON-SIEMENS-STR. 50

D-92224 AMBERG

Germany

Telephone: 49 9621 80 4316

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MA Certificate No. 06-HG568019-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/ 204-2/ 204 IRT, 206-1/ 208/ 408/ 414/ 491/ 492/ 495/ 496/ 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).

Ratings:

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

Service Restrictions:

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:

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/ 204-2/ 204 IRT/ 206-1/ 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.

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

Notes/Documentation:

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:

This Design Assessment Certificate number 01-HG239415/5-PDA, dated 10/Dec/2008 will expire on 09/Dec/2013 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS

ABS Rules:

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