



CERTIFICATE NUMBER

07-HG218520/1-PDA

DATE

27 March 2008

ABS TECHNICAL OFFICE

Hamburg Engineering Services

# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**ABB Stotz-Kontakt GmbH**

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: Programmable Logic Controller

MODEL: AC500/ S500

ABS RULE: 2007 Steel Vessel Rules, 1-1-4/7.7, 4-9-1/9.1/9.3; 4-9-6/3/7.1/7.3/7.9; 4-9-7/3/7/13

OTHER STANDARD: N.A.;

AMERICAN BUREAU OF SHIPPING

  
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Engineering Type Approval Co-ordinator

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For MT 91 Panel:  
SAE Electronic GmbH  
Im Gewerbegebiet Pesch 14  
D-50767 Koeln

**MA Certificate No.**            HN 940138-X

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**Product:**                    **Programmable Logic Controller**

**Model:**                     **AC500/ S500**

**Intended Service:**

Programmable Control System for control and monitoring functions on AMS, ACC, ACCU, ABCU classed vessels.

**Description:**

System Components:

CPU's: PM571, PM571-ETH, PM581, PM581-ETH, PM581-ARC (or EC581-ARC), PM582, PM582-ETH, PM582-ARC, PM590, PM590-ETH, PM590-ARC, PM591, PM591-ETH, PM591-ARC.

Terminal Bases: TB511-ETH, TB511-ARC, TB521-ETH, TB521-ARC, TB541-ETH, TB541-ARC.

Terminal Units: TU505-FBP, TU506-FBP, TU515, TU516, TU531, TU532, TU541, TU542, TU551-CS31, TU552-CS31.

I/O Modules: AC522, AI523, AO523, AX521/ 522, DC505-FBP, DC522/ 523/ 532/ 541/ 551-CS31, DI524, DX522/ 531, PD501.

Communication Couplers: CM572-DP/ 575-DN/ 577-ETH/ 578-CN.

Accessories: MC502.

**Ratings:**

Power Supply: 24V DC.

Degree of Protection: IP20.

**Service Restrictions:**

Unit Certification is required for this product.

**Comments:**

Each particular application is to be specifically approved in conjunction with the relevant system.

**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 07-HG218520/1-PDA, dated 27/Mar/2008 will expire on 01/Feb/2012 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:**

2007 Steel Vessel Rules, 1-1-4/7.7, 4-9-1/9.1/9.3; 4-9-6/3/7.1/7.3/7.9; 4-9-7/3/7/13

**International:**

N.A.