



# Type Approval Certificate

## Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	6003209 HH
Company	ARK Ship - Consulting GmbH Reiherdamm 44 20457 Hamburg, GERMANY
Product Description	Machinery Alarm System
Type	ARK-MS-2008
Environmental Category	none
Technical Data / Range of Application	The System consist of: Machinery Alarm System Exhaust Gas Monitoring System Duty Alarm System  Hardware: Controller: Schneider Automation TSX series (99405-97HH) Operator interfaces: Schneider Automation XBTGT (17145-00HH)  Software: derived function block "digital alarm", version 0.25 derived function block "analog alarm", version 0.16
Test Standard	Regulations for the use of Computers and Computer Systems 1994
Documents	Specification "Maschinenalarmanlage - ARK MS 2008" (02.01.2009) Test protocol ARK MS 2008, version 1.0 (22.01.2009) Function description ARK MS 2008, version 1.0 (23.01.2009) Software questionnaire in accordance to requirement class 2
Remarks	Use of GL type approved Hardware only
Valid until	2014-01-25
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File No.	I.A.03
Hamburg,	2009-01-26

Type Approval Symbol



**Germanischer Lloyd**

Jürgen Wittburg

Burkhard Lilienthal

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".