




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.	3347606 HH
Company	Böning Automationstechnologie GmbH & Co. KG Am Steenöver 4 27777 Ganderkesee, GERMANY
Product Description	Alarm- and Monitoring System
Type	DZA-07
Environmental Category	C, (D), EMC1
Technical Data / Range of Application	System consists of: AHD 650: 6.5" colour TFT-Display with backlight dimming and operating keys, CAN communication; AHD 650R: Remote Control with illuminated operating keys, degree of protection IP55 (backside), IP67 (frontside). AHD-SAS 30: Data Station with CAN communication, AHD-SAS T Terminal station for 30 binary or analogue inputs, 4 binary relay outputs; AHD-R101: Microprocessor controlled relay station with 15 relay outputs, serial communication; AHD-PS 15: Data station for 15 binary inputs, serial communication; AHD-PS 30: Data station for 30 binary inputs, serial communication; AHD-PS 47: Data station for 47 binary inputs, serial communication. All AHD-PS modules fulfil Environmental Category D. Power supply for all modules 24VDC. Functions: Alarming with date and time stamp, grouping, self diagnostic alarms, analogue indications, system failure output relay.
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003
Documents	Test reports: EMV Services 06-6135-2; Zeiss SJ-QP/EMV 052/2006; RMS 03-12/2006; Circuit diagrams and product brochures in document folder, dated 2007-02-12.
Remarks	Type approved permanently connected alarm recording device may be required depending on class notation and propulsion power rating.
Valid until	2012-02-18
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File No. I.A.03	
Hamburg, 2007-04-17	

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Jürgen Wittburg

Jens Dietrich

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