



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), (F), 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, 2 serial inputs and 4 serial outputs; AHD-R101: Microprocessor controlled relay station with 15 relay outputs, serial communication; AHD 882: Data Switch Station with CAN communication, RS232 communication, MODBUS communication, 20 serial inputs, 16 serial outputs, event and fault recorder for up to 10000 reports; AHD-SAS 15: Data Station with CAN communication for 15 binary or analogue inputs, 4 binary relay outputs and 2 serial inputs and 2 serial outputs AHD 406-2: Chamber- / Messroom Panel with serial connection to alarm system via 11 pole terminal.
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003 Regulations for the Use of Computers and Computer Systems
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, paconsult 08-1893, 08-1935 rev1.+ Böning amendmend, EMV-Services 07/7100-8-1; Software Questionnaire RC3.
Remarks	None.
Valid until	2012-02-18
Page	1 of 2
File No.	I.A.03
Hamburg,	2008-06-12

Type Approval Symbol



Germanischer Lloyd

Jürgen Wittburg

Jens Dietrich

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



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

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, AHD 882, AHD R101, AHD-SAS 15 fulfil Environmental Category D.
AHD 650 fulfils Environmental Category F.

Power supply for all modules 24VDC.

Functions: Alarming with date and time stamp, grouping, self diagnostic alarms, analogue indications, system failure output relay, duty engineer alarm system, engineer call.

Software Versions:

AHD 650 Ver. 1.13
AHD-SAS 15: Ver. 3.6
AHD-SAS 30: Ver. 20070330
AHD R101 Ver. 1.51
AHD 406-2: Ver. 1.63
AHD 882: Ver. 1.5

Valid until 2012-02-18

Page 2 of 2

File No. I.A.03

Hamburg, 2008-06-12

Type Approval Symbol



Germanischer Lloyd

Jürgen Wittburg

Jens Dietrich

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