

Type Approval Certificate Extension

This is to certify that Certificate No. 07/20018 for the undernoted products is amended and renumbered as shown.

This certificate is issued to:

PRODUCER	Böning Automationstechnologie GmbH & Co. KG
PLACE OF PRODUCTION	Am Steenöver 4 27777 Ganderkesee Germany
DESCRIPTION	Alarm and monitoring system
TYPE	DZA-07 Comprising the following modules: Data station AHD-SAS 30 Terminal station AHD-SAS T Binary data station (15 inputs) AHD-PS 15 * Binary data station (30 inputs) AHD-PS 30 * Binary data station (47 inputs) AHD-PS 47 * Binary or analogue data station (15 inputs) AHD-SAS 15 * Relay station AHD R101 * Colour display AHD 650 ** Remote control AHD 650R ** Data switch station AHD 882 * Chamber/messroom panel AHD 406-2

APPLICATION Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 (items marked with "*" also ENV4 and items marked with "**" also ENV5) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

Certificate No.	07/20018 (E1)
Issue Date	05 August 2008
Expiry Date	04 June 2012
Sheet	1 of 2


Thorsten Wolff
Hamburg Design Support Centre
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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ADDITIONAL TEST	Enclosure test AHD 650 and AHD 650R: IP55 (backside) and IP67 (frontside)
DESIGN CODE	Manufacturer's specification.
OTHER CONDITIONS	The complete installation is subject to a separate plan appraisal according to applicable Rules and Regulations when installed on LR classed vessels.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. ETS 19334-08 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 07/20018 to which this extension should be attached.

Certificate No.	07/20018 (E1)
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Part 3

Alarm and Monitoring Systems

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
<p>Böning Automationstechnologie GmbH & Co. KG Am Steenöver 4 27777 Ganderkesee Germany</p>	<p>Alarm and monitoring system Type DZA-07 Comprising the following modules:</p>	<p>Power supply: 24 V d.c.</p>	<p>ENV1 ENV2 ENV3 ENV4 (items marked with “**”) ENV5 (items marked with “***”) 2002</p>	<p>Expires: 04 June 2012</p>	<p>07/20018 (E1)</p>
	Data station	Data Station with CAN communication			
	Terminal station	Terminal station for 30 binary or analogue inputs, 4 binary relay outputs			
	Binary data station	Data station for 15 binary inputs, serial communication			
	Binary data station	Data station for 30 binary inputs, serial communication			
	Binary data station	Data station for 47 binary inputs, serial communication			
	Binary or analogue data station	Data station with CAN communication for 15 binary or analogue inputs; 4 binary relay outputs and 2 serial inputs and 2 serial outputs			
	Relay station	Microprocessor controlled relay station with 15 relay outputs, serial communication			
	Colour display	6.5" colour TFT-Display with backlight dimming and operating keys, CAN communication	Enclosure test AHD 650 and AHD 650R: IP55 (backside) and IP67 (frontside)		
	Remote control	Remote Control with illuminated operating keys.			
	Data switch station	Data switchstation with CAN communication, RS232 communication, MOD-bus communication, 20 serial inputs and 16 serial outputs			
	Chamber/messroom panel	Chamber/ messroom panel with serial connection to alarm systems			

Y/W 7.06.08