



Type Approval Certificate

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

This certificate supersedes certificate number 16/20052 issued on 03.06.2016 which is hereby cancelled.

This certificate is issued to:

PRODUCER Bönig Automationstechnologie GmbH & Co. KG
Am Steenöver 4
27777 Ganderkesee
Germany

DESCRIPTION IAMC serves as a control and display platform for processing and visualizing

TYPE AHD-IAMCS

Designation	Device description
AHD 1110 F ⁽³⁾	10" Display with foil front
AHD 1110 G ⁽³⁾	10" Display with glass front
AHD 1115 F	15" Display with foil front
AHD 1115 G	15" Display with glass front
AHD 1119 F	19" Display with foil front
AHD 1119 G	19" Display with glass front
AHD 1200 ⁽³⁾	Embedded PC
AHD 1215 F	15" Panel PCs with foil front
AHD 1215 G	15" Panel PCs with glass front
AHD 1219 F	19" Panel PCs with foil front
AHD 1219 G	19" Panel PCs with glass front
AHD 1224 G	24" Panel PCs with glass front
AHD-DPU9 ⁽³⁾	Data processing station
AHD 1310 F ⁽³⁾	10" Panel PC with foil front



Certificate No. 16/20052 (E1)

Issue Date 06 June 2018

Expiry Date 02 June 2021

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Thorsten Wolff
Hamburg Technical Support Office

Lloyd's Register EMEA

LR031.1.2013.12

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

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



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TYPE continued

Designation	Device description
AHD 1310 G ⁽³⁾	10" Panel PC with glass front
AHD 406-2 ⁽³⁾	Cabin duty alarm
AHD 570	5,7" LCD colour display
AHD 651 ⁽²⁾	6,5" Operating panel
AHD 880 E ⁽²⁾	8,8" Operating panel with engine monitoring
AHD 880 G ⁽²⁾	8,8" Operating panel with glass front
AHD 880 TC ⁽²⁾	8,8" Operating panel with foil front
AHD 882 ⁽¹⁾	Central unit
AHD-DPS 02 A07 ^{(3), (4)}	Extension module for navigation and signal light control and monitoring
AHD-DPS 02 BS ⁽³⁾	Operation and indicator module for console
AHD-DPS 02 E07 ⁽⁴⁾	Emergency switch units with 7 switches
AHD-DPS 02 E14 ⁽⁴⁾	Emergency switch units with 14 switches
AHD-DPS 02 G14 ^{(3), (4)}	Basic module for navigation and signal light control and monitoring
AHD-PS 15 ⁽¹⁾	Data station for 15 binary inputs
AHD-PS 15B ⁽¹⁾	Data station with duty selection function
AHD-PS 30 ⁽¹⁾	Data station for 30 binary inputs
AHD-PS 47 ⁽¹⁾	Data station for 47 binary inputs
AHD R 101 ^{(1), (3)}	Microprocessor controlled relay station
AHD-SAS 15 M12 ^{(1), (3)}	Data station for analog and binary sensors
AHD-UCC ⁽³⁾	Repeater
AHD-UIC	Compact protocol converter
AHD-WAOP K	Personnel alarm system
AHD-WAOP	BNWAS
AHD-GAP	General alarm unit with fire alarm function
AHD 570 DP	5,7" LCD colour display
AHD-DRM R	Control unit for colour displays and monitors with rotary push drive
AHD-DRM T	Control unit for colour displays and monitors with trackball

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 Thorsten Wolff
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APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3, ENV4 (components marked with ⁽¹⁾) and ENV5 (components marked with ⁽²⁾ , front only) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - July 2015.
ADDITIONAL TESTS	Low temperature test (-25°C/16hrs) components marked with ⁽³⁾
STANDARD	Manufacturer's specification
RATINGS	Power supply: 24V DC Power supply: ⁽⁴⁾ = 24V DC; 115V AC and 230V AC
OTHER CONDITIONS	The complete installation is subject to a separate plan appraisal according to applicable Rules and Regulations when installed on LR classed vessels.



The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 36993-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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