



BÖNING SHIP AUTOMATION

SOLUTIONS FOR
TUGS AND TOWBOATS



Böning USA, Inc.
Boca Raton – FL/ www.boening-usa.com

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Customer References – Tugboats operators

Germany



Ukraine



Italy



Indonesia



Turkey



Brazil



USA



Netherlands



SOLUTIONS FOR TUGS AND TOWBOATS

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Böning Portfolio for Tugs and Towboats

Engine Room

Vessel Monitoring System

Automation for Unmanned Machinery Spaces

Tank Monitoring

Propulsion System Monitoring + Fuel Consumption

Bridge Area

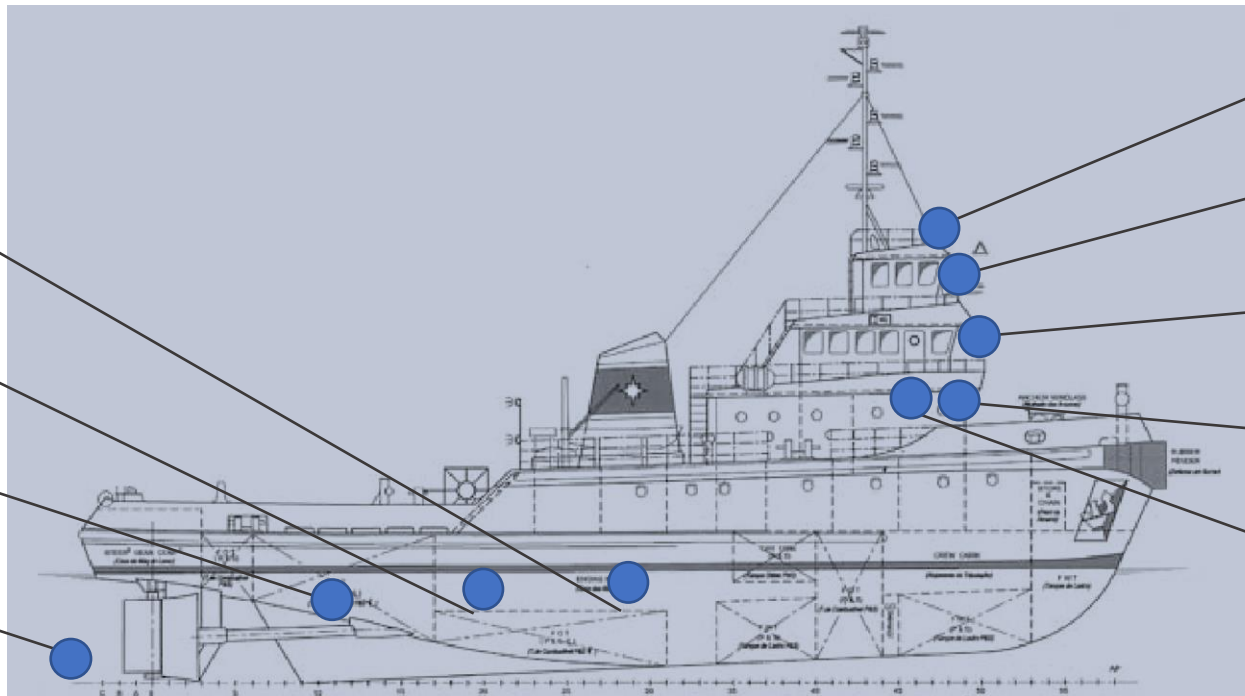
CCTV

Navigation Lights Control Panel

Whistle Operation Panel

General Alarm Panel

Dead Man Alarm Panel



Onshore:

Remote Monitoring

Cloud Data Storage

Vessel Tracking



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Navigation Lights Panel

Modular Control Panel for up to 42 lights (LED or bulb) – with customizable mimic panel



The modular-designed AHD-DPS02 controls and monitors navigation and signal lights on vessels.

Features:

- Modular design (from 14 to 42 lights)
- Control panel with custom layout
- Maintenance-free: no need to replace fuses after a short circuit
- Record operating hours and the number of switching cycles
- Collective alarm and ModBus interface to integrate with third-party alarm systems
- Compatible with AC or DC lights, bulbs or LEDs.

Certificates:

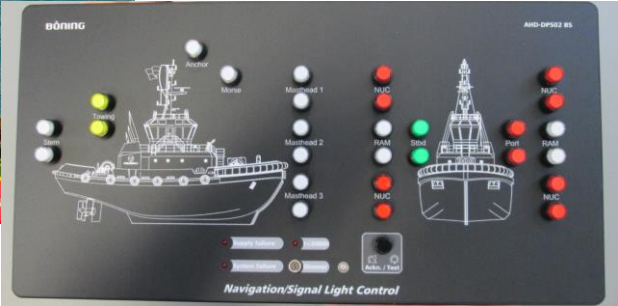


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Navigation Lights Panel

References



Navigation Lights Panel

References



Vessel Monitoring System

- Bilge Alarms
- Pumps
- Doors & Hatches
- Tank levels (Fuel, Water, Urea)
- Engine alarms
- Machinery alarms
- Electrical and Power Management



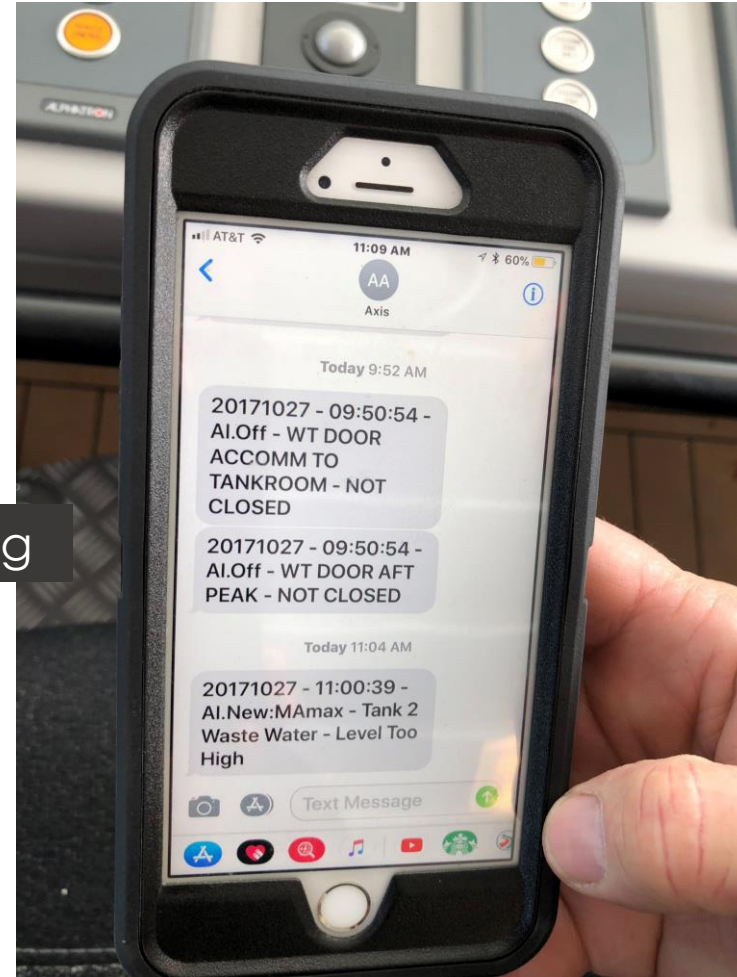
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Vessel Monitoring System

- Bilge Alarms
- Pumps
- Doors & Hatches
- Tank levels (Fuel, Water, Urea)
- Engine alarms
- Machinery alarms
- Electrical and Power Management

Remote Monitoring

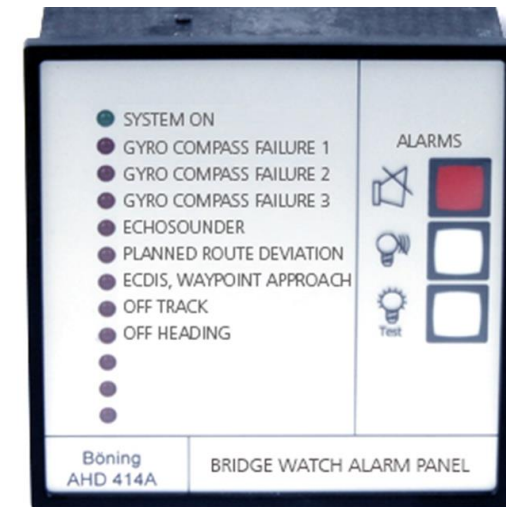


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Alarm Panel AHD 414A

- Bilge Alarms
- Pumps
- Doors & Hatches
- Tank levels (Fuel, Water, Urea)
- Engine alarms
- Machinery alarms



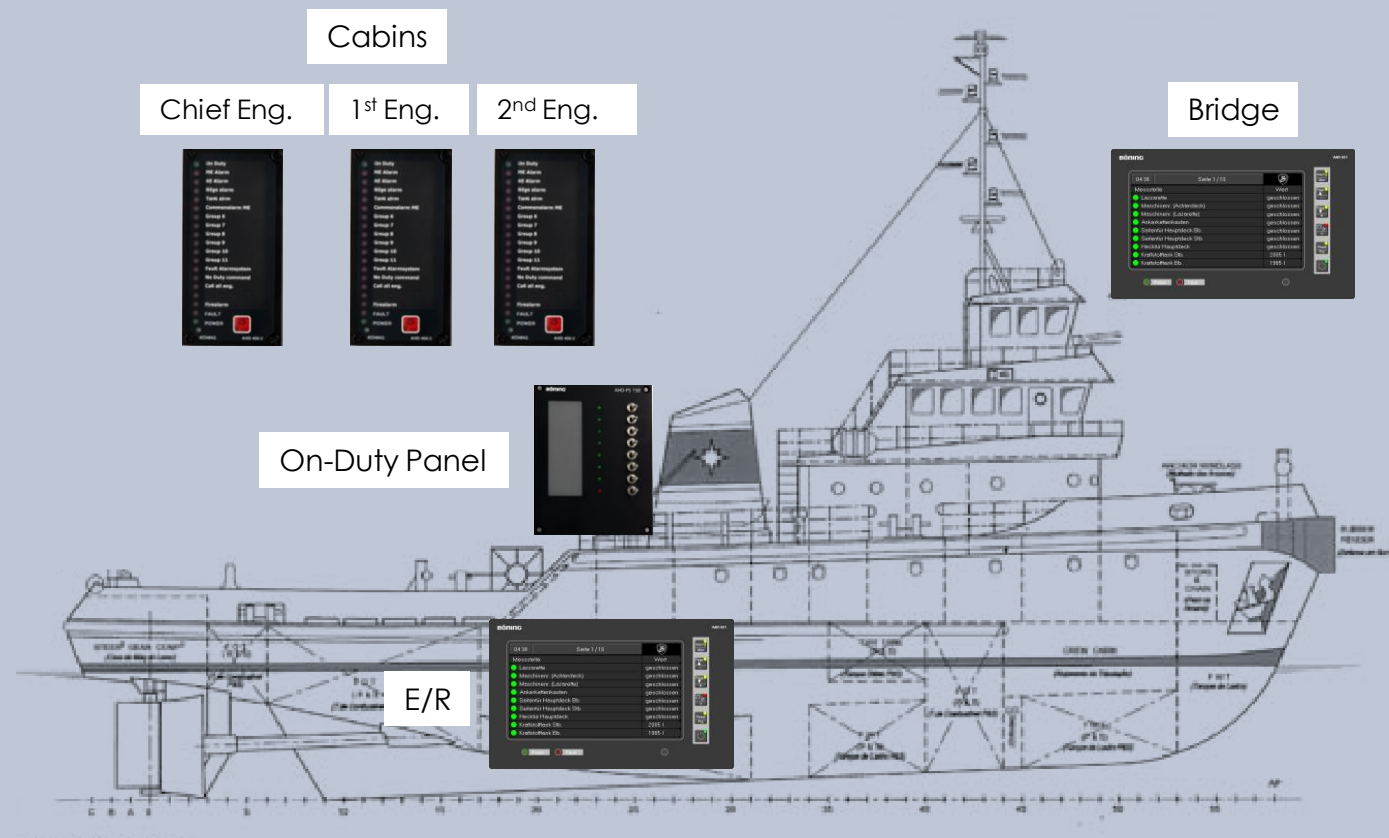
- Monitor up to 10 inputs
- Customizable labels
- NO / NC contacts
- Relay output for external horn
- Dimensions: 144x144 mm / 5.6 x 5.6 in
- Low power consumption: 0.15A
- Certificate: Bureau Veritas



Unmanned Machinery Spaces (UMS)

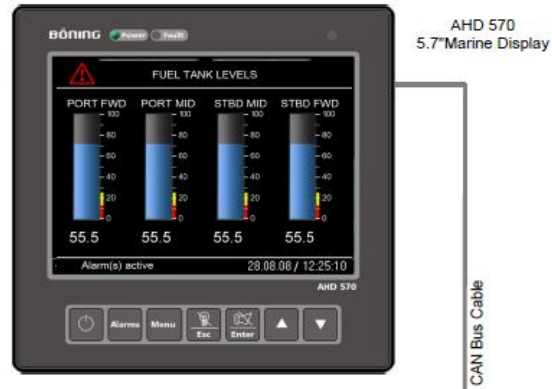
- Bridge Alarm Panel
- Engine Room Alarm Panel
- On-Duty Panel (E/R or ECR)
- Cabin Panels

Meets UMS (Unmanned Machinery Spaces)
Class Requirements



Tank Monitoring

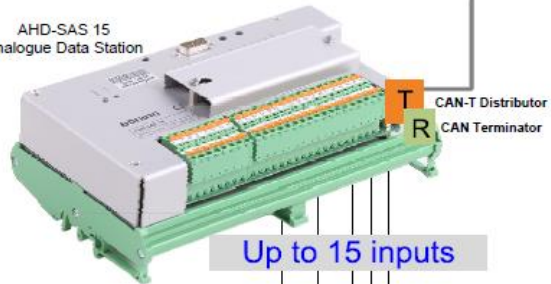
BÖNING Tank Monitoring
System for Commercial Vessels



AHD 570
5.7" Marine Display

CAN Bus Cable

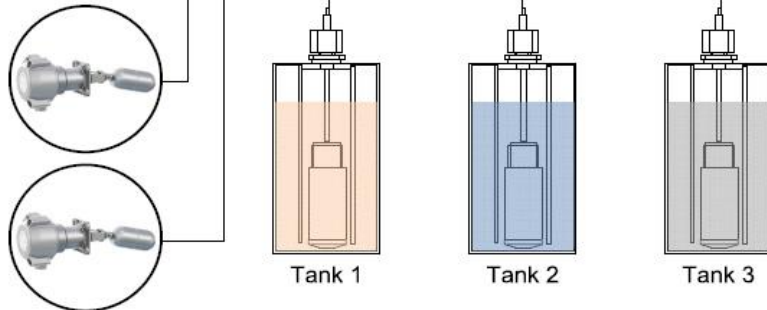
AHD-SAS 15
Analogue Data Station



Up to 15 inputs

High level switches

Low level switches



Tank 1

Tank 2

Tank 3

- Bridge Alarm Panel
- Engine Room Alarm Panel
- On-Duty Panel (E/R or ECR)
- Cabin Panels



PANEL DE CONTROL
Y MONITOREO A.M.S

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Tank Monitoring + Fuel Consumption








- Fuel Tanks
- Fuel Consumption
- Total Fuel Consumption
- Total Trip Consumption
- Engine RPM
- Speed Over Ground
- Trip Range
- Trip Reset
- Remote Monitoring
- Data-logging



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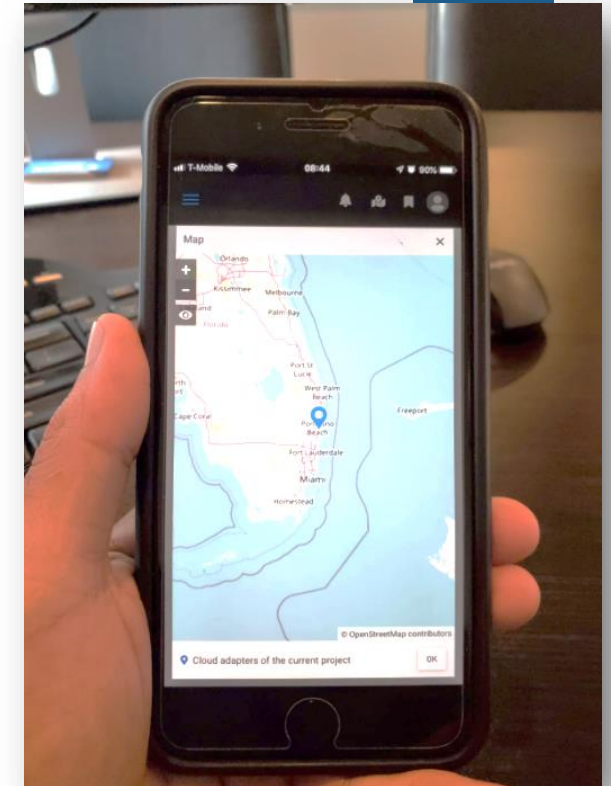
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	Hauptmaschine BB	Hauptmaschine STB	SCR
Overview	 JIM in Betrieb	 JIM in Betrieb	 BB - AdBlue Anlage aktiv
Harmonie			 BB - AdBlue Füllstand zu niedrig
Harmonie - Details			 BB - Kat Temperatursensor defekt
Hauptmotor BB - Vergleich			 BB - Keine Druckluft vorhanden
Hauptmaschinen			 BB - Keine Motorzahlzahl
Generatoren			 BB - Bypassklappe klemmt
			 BB - Bypassklappe geöffnet
Aqua Pilot			 BB - Bypassklappe geschlossen
			 BB - Sammelstörung
Vibration Lager			 BB - Dieselpartikelfilter verstopft
Vibration Antrieb			
Temperatur Lager	 Kühlwasserstemperatur zu hoch	 Kühlwasserstemperatur zu hoch	 STB - AdBlue Anlage aktiv
	 Öldruck zu niedrig	 Öldruck zu niedrig	 STB - AdBlue Füllstand zu niedrig
	 Ölstand zu niedrig	 Ölstand zu niedrig	 STB - Kat Temperatursensor defekt
	 Batteriespannung zu niedrig	 Batteriespannung zu niedrig	 STB - Keine Druckluft vorhanden
	 Kühlwasserstand zu niedrig	 Kühlwasserstand zu niedrig	 STB - Keine Motorzahlzahl
Test	Betriebsstunden 0,00 h	Betriebsstunden 0 h	 STB - Bypassklappe klemmt
			 STB - Bypassklappe geöffnet
			 STB - Bypassklappe geschlossen
			 STB - Sammelstörung
			 STB - Dieselpartikelfilter verstopft

Remote Monitoring



Cloud Data Logging



Vessel Tracking



Bridge Systems – Alarm Panels



Whistle Operation Panel



General Alarm Panel



Dead Man Alarm Panel



Böning Ship Automation

Head office/ factory

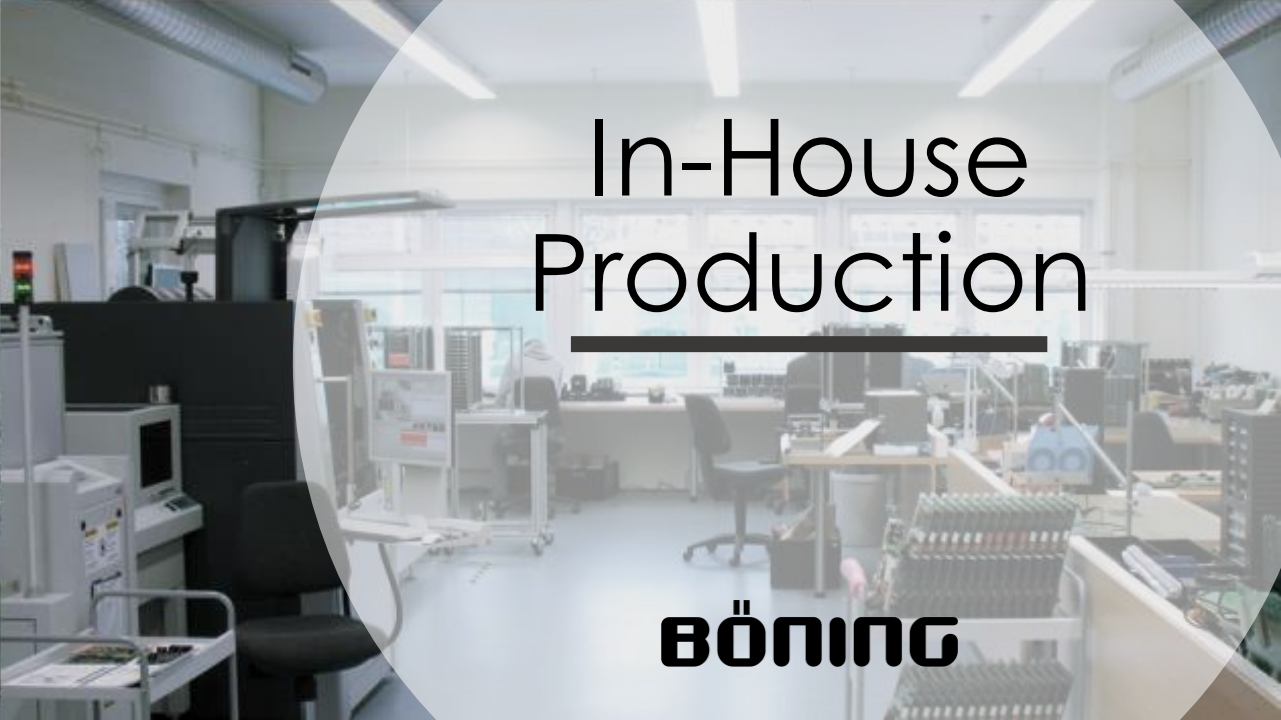
[Germany]

- Founded in 1977
- More than 100 employees (20% developing engineers)
- More than 20 000 devices produced per year
- Approx. 700 ships with Böning technology are put in operation every year



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In-House Production

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Boca Raton-FL

Technical Support and
Training Center for Integrators

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