



# Highlander Marine (Asia-Pacific) Pte Ltd



**INTRODUCTION**

INNOVATIONS FOR LIFE AT SEA  
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## VISION & MISSION

### **Our Vision**

To be an Innovator of solutions to meet the needs of Marine, Offshore & Coastal Surveillance Industry

### **Our Mission**

To develop comprehensive, effective, efficient and economical solutions for meeting the demands of Marine, Offshore & Coastal Surveillance

### **Our Value**

Satisfied Customers and Satisfied Stakeholders

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## Who are we and What do we do?

- Manufacturer:** Marine Navigation, Communications & Automation & Coastal Surveillance Supporting Systems
- System Integrator:** Marine Navigation, Communication & Automation Systems including Integrated Navigation System (INS)
- Service Provider:** Integration, Installation, Commissioning, Testing & Sea-trials  
Certified Safety Radio Survey  
Certified Voyage Data Inspection  
General Repair Services & Preventive Maintenance Service



*Certifications: Our mark of Quality and meeting IMO/ International Standards*

**Performance Standards of Marine Navigation Products & Systems meeting:**

- **SOLAS Regulations & Requirements**
- **IMO Performance Standards**
- **International Electrical Commission (IEC) Testing Standards**
- **International Association of Lighthouse Authorities (IALA) Standards**
- **International Hydrographic Organization (IHO) Standards**
- **Maritime Safety Authorities (MSA)**
- **COSPAS-SARSAT Regulations**

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# Certifications: Our mark of Quality and meeting IMO/ International Standards

Products & Systems are certified By:

DNV - GL Classification / MED Wheel-Mark Certification / Russian Register of Shipping / China Classification



**Germanischer Lloyd**

Notified Body No.: 0098



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# Certifications: Our mark of Quality and Standards

## ISO 9001:2015 Certified

## Approval by Classification Societies

## Bizsafe Certified

ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT



# CERTIFICATE

The Certification Body  
of TÜV SÜD PSB Pte Ltd  
certifies that

**HIGHLANDER MARINE (ASIA-PACIFIC) PTE LTD**  
1 Sunview Road  
#08-43 Eco-Tech@Sunview  
Singapore 627615

has established and applies  
a Quality Management System for

**Sales, Service, and Inspection of Navigation and Communication Equipment**

Proof has been furnished that the requirements  
according to

**ISO 9001 : 2015**

are fulfilled. The certificate is valid from 2019-01-10 to 2022-01-09  
Certificate Registration No. 2018-2-2518  
Date of Print : 2019-01-14



SIEW Kwai Heng, Tiffany  
Certification Manager  
Business Assurance Division  
Management Systems



Page 1 of 1

Please refer to [www.tuv-sud.com.sg](http://www.tuv-sud.com.sg) for current certificate status in the "Directory of Management System Certified Companies".

TÜV SÜD PSB Pte Ltd - 1 Science Park Drive - Singapore 118221



### Approval of Service Suppliers

SINGAPORE  
07 October 2016  
Highlander Marine (Asia-Pacific) Pte Ltd  
1 Sunview Road, #08-43 Eco-Tech@Sunview,  
Singapore 627615 (hereinafter referred to as "Supplier")

The following persons are authorized to carry out Safety Radio and Ship Security Alert Systems Surveys on behalf of Lloyd's Register as long as they are employed by the above mentioned firm:

Surveys and testing of radio communication equipment

The following persons are authorized to carry out Safety Radio and Ship Security Alert Systems Surveys on behalf of Lloyd's Register as long as they are employed by the above mentioned firm:

- Mr Sengye Angbawman



### APPROVAL OF SERVICE SUPPLIERS

This is to certify that

**Highlander Marine (Asia-Pacific) Pte Ltd**  
Singapore

is granted acceptance for  
**Inspection and testing of radio communication equipment and Automatic Identification Systems (AIS), in accordance with Class Programme DNVGL-CP-0464.**

This service supplier certificate will be accepted for use with all rule sets published by DNV GL.  
See the following page(s) for details regarding application.

This Certificate is valid until **2021-01-09**.

Issued at **Certification of Materials - Singapore** on **2018-01-09**

for DNV GL

This document has been digitally signed and will therefore not have handwritten signatures  
**Koh, Shu Yeng**  
Station Manager

Note: This certificate may be withdrawn if:  
1. The service provider has been temporarily closed out or the results improperly reported.  
2. The supplier has found any deficiencies in the accepted operating systems of the service supplier.  
3. The firm has failed to adhere to any major changes having effect on the quality of the service rendered.  
4. The conditions listed in the certificate are changed and/or are not fulfilled.

Note: This certificate evidences compliance with one or more of the rules, standards, codes or other criteria in the applicable product or company rule set issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by its terms and conditions on the reverse side hereof and by the Rules, Guides or standards of the American Bureau of Shipping, who shall remain the sole judge thereof.

Date of issue: 22/03/2017



## CERTIFICATE

The Workplace Safety and Health Council  
is pleased to certify that

**HIGHLANDER MARINE (ASIA-PACIFIC) PTE. LTD.**

has fulfilled the requirements to attain bizSAFE Level 4

This certificate will expire on 21/03/2020

*Winston Yew*

Winston Yew  
Deputy Director, Industry Capability Building  
Workplace Safety and Health Council



Certificate No. E26020

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## Brand Names



Traditional - Innovative

**ROCKSON**  
AUTOMATION



**NINGLU**

**Intellian**<sup>®</sup>

**COBHAM**  
SAILOR<sup>®</sup>

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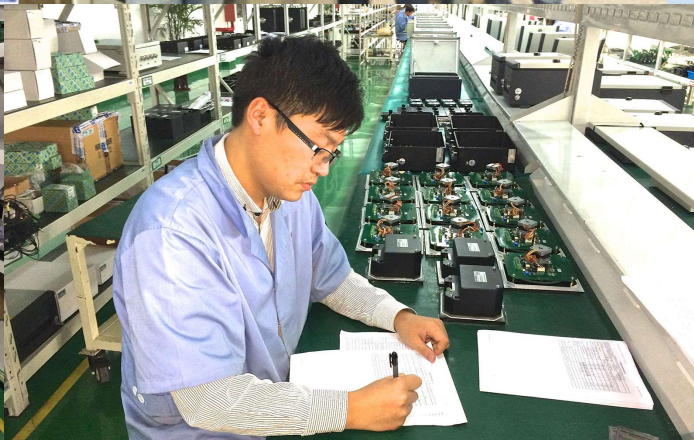
## R&D Centres - Production

Italy Centre, next to the Adriatic Sea offering realistic testing conditions

R&D Centre in St Petersburg, Russia

R&D Centre in Kiel, Germany

Sirius Business Park Kiel



EQUIPMENT & SYSTEM PRODUCTION IN CHINA, NANTONG

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## Worldwide Service Support

- More than 88 service partners located over the worldwide
- Singapore Office is the Main Service Co-ordination Centre for Asia-Pacific region with supports by service partners located in each country.
- All service partners are trained in the factory and retrained every 2 years



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# PRODUCTS & SYSTEMS

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# Intelligent Bridge · Integrated Navigation System - INS

NAVIGATION

## Multi-Function Console

Providing:

- Radar Function
- ECDIS Function
- Conning Function
- Central Alarm Function
- CCRS Function

## Safety, Efficiency, Economy

- Route Planning
- Route Monitoring
- Collision Avoidance
- Navigation Data Display
- Navigation Data Management
- Central Alarm System
- Track Control Steering

GMDSS

SCS

BNWAS

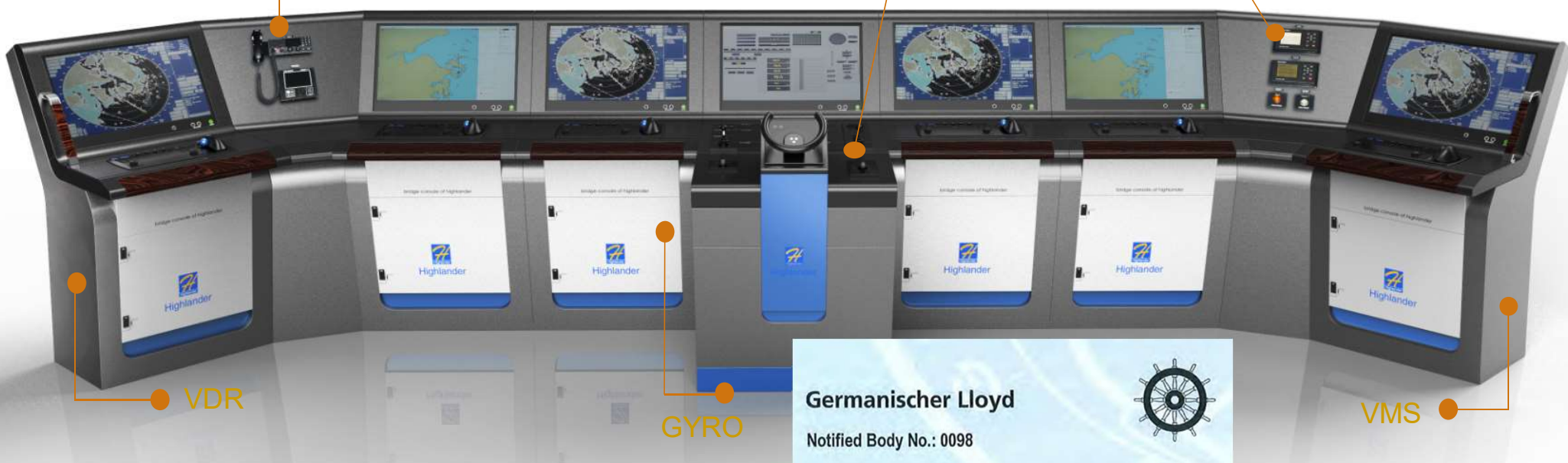
VDR

GYRO

VMS

Germanischer Lloyd

Notified Body No.: 0098



# Voyage Data Recorder -VDR

GERMANISCHER LLOYDS

MED WHEELMARK



HLD-VDR 600

More than 8,000 vessels worldwide are equipped with Highlander VDR.

## NAVIGATION

Germanischer Lloyd

Notified Body No.: 0098



### Product Features

#### High Reliability

- Applications Software are embedded and modularized ensuring high reliability and stability.

#### Easy Installation

- Modular units for ease of installation
- Light weight PDU and modules reduces demand on installation sites.

#### Scalable Configuration

- Independent image, serial data and non-standard data collection module can be scaled according to requirements
- Multiple Data Collection modules can be cascaded at any stage during the project implementation.

#### Interface

- Radar image and ECDIS images recorded on LAN protocol.
- IEC 61162 Standard Serial Interface
- Analog Non-Standard Interface

#### Data Integrity Protection

- Data undergoes multiple encryption protection measures against tampering to ensure data integrity

#### Low Maintenance

- Remote Diagnosis Access for maintenance
- Online access for local maintenance.

#### Value Add function

- Data can be uploaded to owners for management, training and safety analyze.

# Electronic Chart Display & Information System - ECDIS

GERMANISCHER LLOYDS

MED WHEELMARK

NAVIGATION

Germanischer Lloyd

Notified Body No.: 0098



**HLD-ECDIS 600**

## Product Features

### High Reliability

- Applications Software are embedded and modularized ensuring high reliability and stability.

### Easy Installation

- Ease of installation and set-up
- Integrated Operator's training module

### Interface

- Radar Image Overlay via LAN protocol.
- IEC 61162 Standard Serial Interface for AIS, Speed, Depth, Wind, INS Ready
- AVCS, CMAP, SS57/63 Charts

### Data Integrity Protection

- Data undergoes multiple encryption protection measures against tampering to ensure data integrity

### Low Maintenance

- Remote Diagnosis Access for maintenance
- Online access for local maintenance.

### Value Add function

- Data can be uploaded to owners for management, training and safety analyze.

# ARPA NAVIGATION RADAR – ARPA RADAR

NAVIGATION

GERMANISCHER LLOYDS

MED WHEELMARK

Germanischer Lloyd

Notified Body No.: 0098



## Product Features

### High Reliability

- Applications Software are embedded and modularized ensuring high reliability and stability.

### Easy Installation

- Light weight units for ease of installation

### Features

- 50 Active ARPA Targets tracked independently
- 100 AIS Active Targets with 1000 dormant AIS targets tracked on background.
- Day & Night mode Display (Auto and manual set)
- Target Enhancer for small targets
- High range and distance resolution
- Chart overlay for easier land identification

### Interface

- LAN protocol for ECDIS, VDR and other image recording equipment.
- IEC 61162 Standard Serial Interface for Gyro, AIS, Speed, GPS, etc
- VGA & DVMI outputs for VDR, extended display

### Low Maintenance

- Remote Diagnosis Access for maintenance
- Online access for local maintenance.

### Value Add function

- Data can be uploaded to owners for management, training and safety analyze.

**HLD-RD 600 ARPA NAVIGATION RADAR**

# STEERING CONTROL SYSTEM – SCS

## NAVIGATION

Germanischer Lloyd

Notified Body No.: 0098



GERMANISCHER LLOYDS

MED WHEELMARK



## Product Features

### High Reliability

- Applications Software are embedded and modularized ensuring high reliability and stability.

### Easy Installation

- Modular Units for ease of installation
- Self-Configuring Software
- Multiple Interface for adaptation to different types of steering gear

### Features

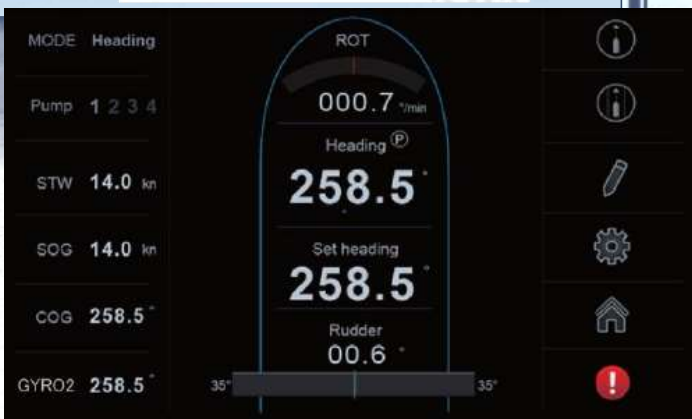
- Fully Digitized Autopilot System using the latest state of art technology
- Track Control System according to IMO TCS Class B Standards
- Course & Heading Control mode
- Over-ride feature to meet IMO and classification requirements
- FU, NFU and Auto Steering modes
- Built In Test Equipment (BITE)

### Interface

- LAN protocol for ECDIS and VDR.
- IEC 61162 Standard Serial Interface for Gyro, Speed, GPS, etc
- CAN Bus System Interface

### Low Maintenance

- Remote Diagnosis Access for maintenance
- Online access for local maintenance.



# Rudder Angle Indicator System -RAIS

NAVIGATION

GERMANISCHER LLOYDS

MED WHEELMARK



HLD-RAIS 100



## Product Features

### Fully Digital Design

- IEC 61162 serial interface
- CAN bus transmission
- Self-synchronization

### Scalability

- System can be configured in accordance to requirements of customers
- Unlimited number of indicators
- System expandable through cascading of distribution units to meet different types of vessels.

### Low Indication Error

- Indication error is less than 0.5 degree meeting ISO20673 standard
- Low indicator follow-up rate error.

### Local, Remote and Centralized Dimming

- Centralized dimming for selected connected indicators
- Local individual or centralized dimming
- Remote individual or centralized dimming

### AC and DC operation

- In accordance to IMO Res A.1021, system operates on AC and DC sources.
- Alarm when mains or emergency supply is missing.

### Easy installation and low maintenance

- Automatic calibration and synchronization of indicators

Germanischer Lloyd

Notified Body No.: 0098





# Bridge Navigation Watch Alarm System - BNWAS

NAVIGATION

GERMANISCHER LLOYDS

MED WHEELMARK



HLD-BNwas 600



## Product Features

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### Fully Digital Design

- IEC 61162 serial interface
- CAN bus transmission
- Self-synchronization

### Scalability

- System can be configured in accordance to requirements of customers
- Unlimited number of indicators
- System expandable through cascading of distribution units to meet different types of vessels.

### AC and DC operation

- In accordance to IMO Res A.1021, system operates on AC and DC sources.
- Alarm when mains or emergency supply is missing.

### Easy installation and low maintenance

- Automatic calibration and synchronization of indicators

# Ninglu Echo Sounder & Speed Log

ECHOSOUNDER



SPEED LOG



Wind Speed & Direction Indication System

## Sailor GMDSS Equipment / Lars Thrane Iridium Satcom



LT-300 Satellite Communications System



SAILOR GMDSS Radio Communication Systems

# INTELLIAN VSAT, FBB SATCOM & TVRO System



I – series TVRO Antenna System



T series C-Band VSAT Antenna System



INMARSAT FBB Satcom



Gx series Ku/Ka VSAT Antenna System

# Kexun Internal Communication



Public Addressor



Batteryless Telephone System



Automatic Telephone System



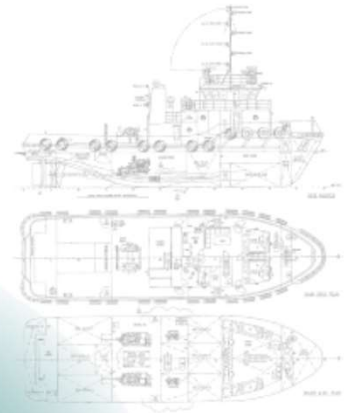
Talkback System



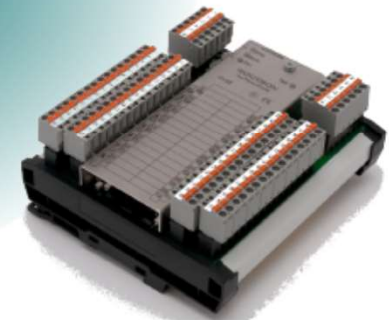
General Alarm System



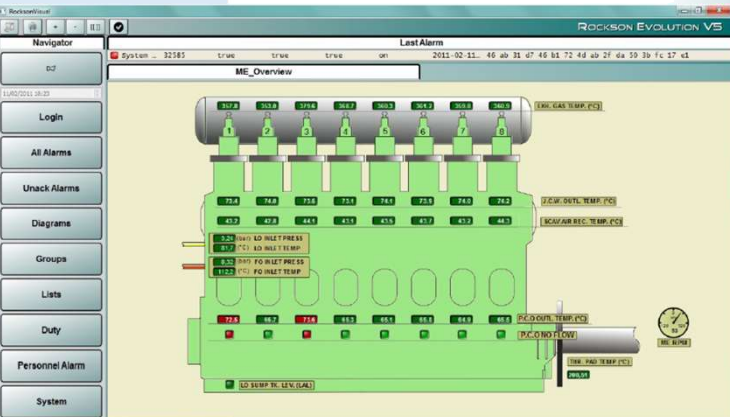
## AUTOMATION SYSTEM



# ROCKSON AUTOMATION

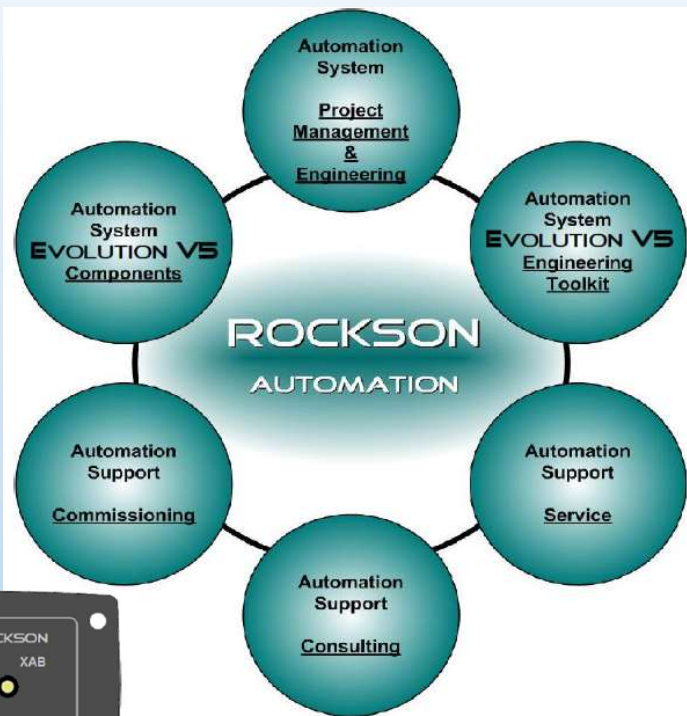


**Integrated Automation -  
Systems, Solutions and Services**

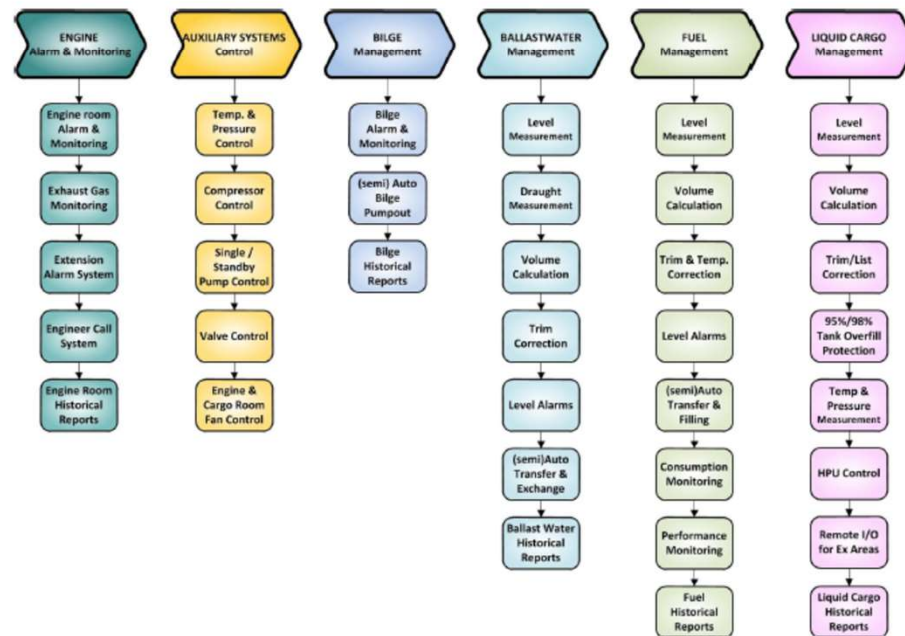




# AUTOMATION SYSTEM



## Applications





*Contact us for your requirements:*

***HIGHLANDER MARINE (ASIA-PACIFIC) PTE LTD***

***1 SUNVIEW ROAD***

***#08-43 Eco-Tech@Sunview***

***SINGAPORE 627617***

***TEL: +65 6377 3096 FAX: +65 6252 9307***

***EMAIL: [SALES@HIGHLANDER.SG](mailto:SALES@HIGHLANDER.SG) / [SERVICE@HIGHLANDER.SG](mailto:SERVICE@HIGHLANDER.SG)***



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***Thank You!***

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