

# 2017

# Engine Room Monitoring and Alarm System





Company Profile

Nanjing Southeast Industrial Equipment Corporation is a public company on the list of National Equities Exchange and Quotations (NEEQ). The abbreviation is Southeast Share and stock code is 832124.

Established in 2003, SECORP is a new high-tech enterprise and double software enterprise. SECORP has been committed to the development and applications of marine ancillary products. At present, the company products are mainly divided into three categories: 1. the electrical ancillary products, such as main engine remote control, bridge console and switch panel, etc. 2. the ancillary products for marine engine, such as oil supply unit and marine growth preventer etc. 3. the ancillary products for navais, such as wiper & clear view screen, foghorn and electric horn. We provide products and service for many well-known enterprises and brands, such as Shanghai Waigaoqiao Free Trade Zone Group Co. Ltd., CSSC Chengxi Shipyard Co. Ltd., Yangzijiang Shipbuilding, COSCO Shipyard, China Merchants Heavy Indutry Co. Ltd., and Shanghai Shipyard; MAN, MTU, S.E.M.T, and DAIHATSU.

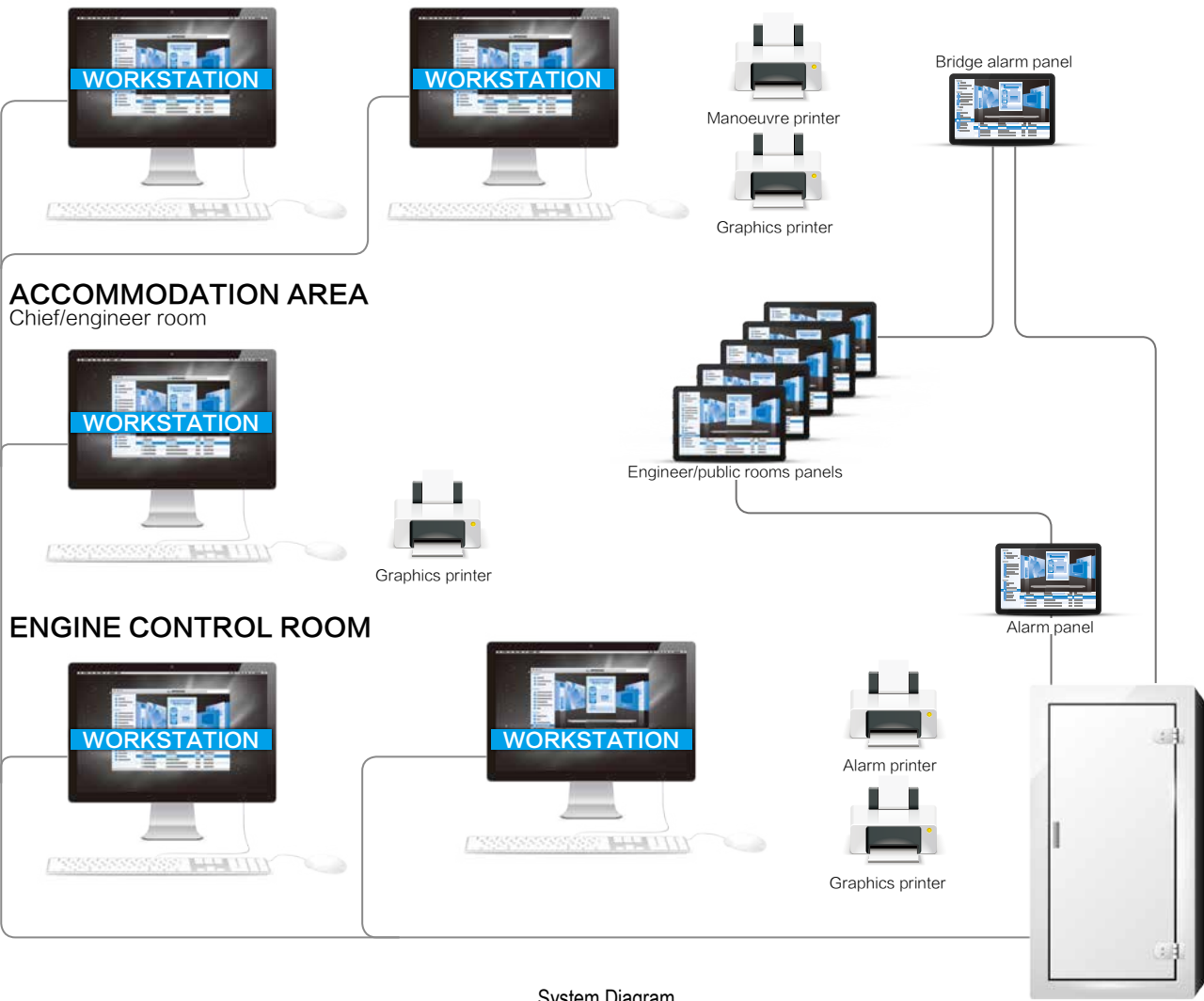
We obtained ISO9000:2008 certification from China Classification Society, BV Factory Approval Certificate, GL Recognition Certificate for Welding Workshop Process, CCS, DNV-GL, LR, BV, ABS, NK and other main classification society certificates of the world.

SECORP adhere to the enterprise spirit of “Keep it sample, Strive for perfection” and the quality policy of “innovation in manufacture, customer satisfaction”. Realize enterprise vision of “Create our better life with my hard work”.

CONTENTS	IACS Monitoring and Control System	2
	AMS Monitoring and Control System	3
	Product Contour Drawing	4
	Product Feature	4
	Software Features	4
	Global Services	5

IACS Monitoring and Control System

BRIDGE



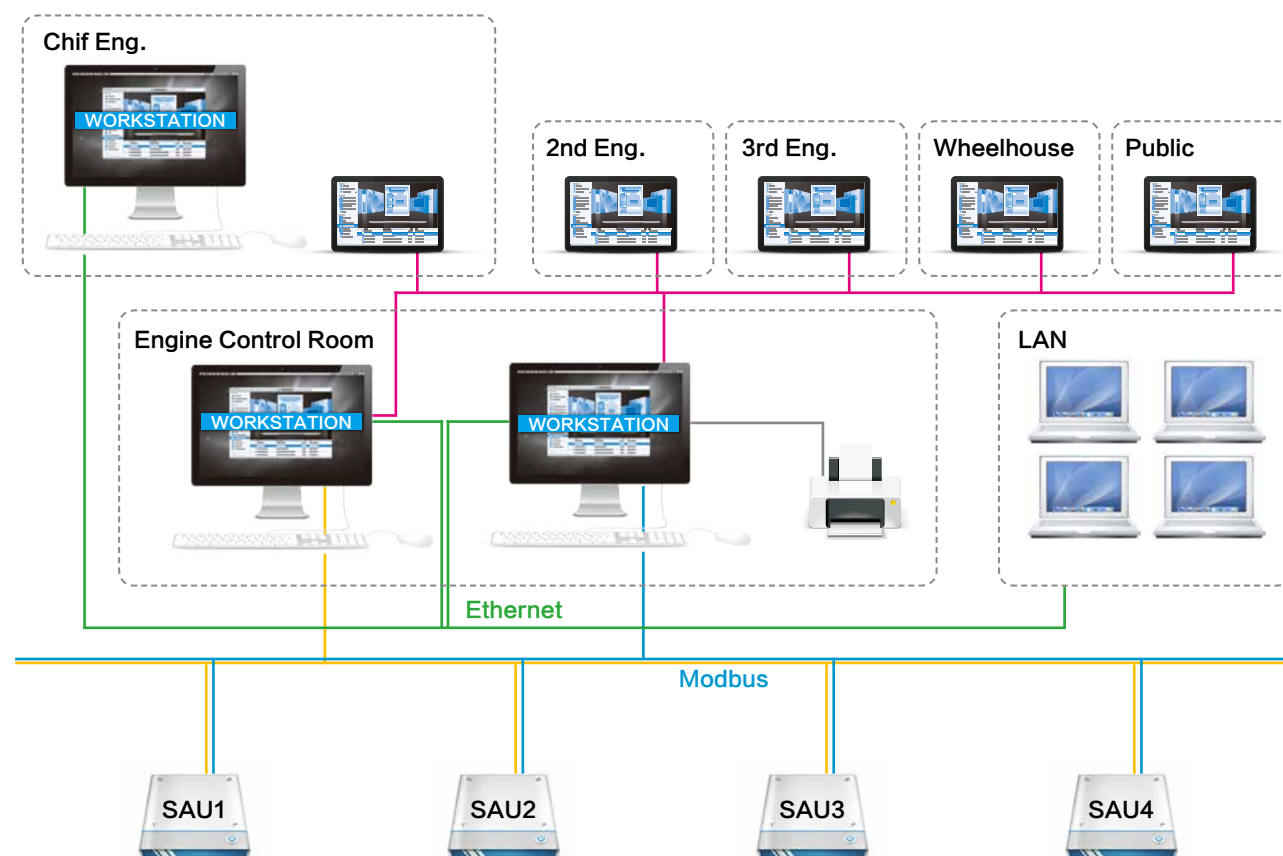
System Diagram

Product Description

The engine room comprehensive alarm control system consists of several parts, including sensors, acquisition hardware and software systems. Firstly, the sensors acquire the physical parameters, such as temperature, pressure and switch status, the acquired data is transferred to engine control room by remote transmission, then the acquisition hardware will take sample, different acquisition hardware is connected to host computer by bus connection. When there are abnormal changes in physical parameters, a sound and light alarm signal will be generated immediately, the location and channel number for alarm also will be displayed intuitively, which make the marine staffs can process the information timely and ensure a safe navigation.

With more and higher degree of marine automation, the alarm system can monitor and control hundreds of thousands of data points, establish detailed history database, and intelligently determine the alarm status. In addition, it can recall the historical data and reproduce the historical status.

# IACS Monitoring and Control System

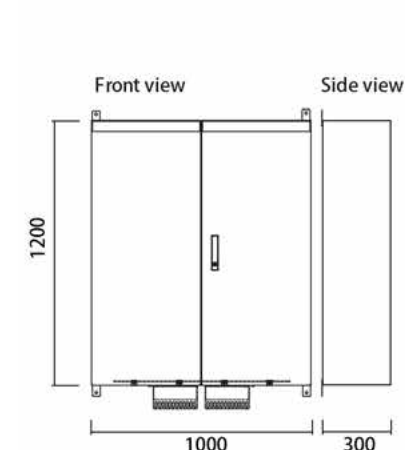


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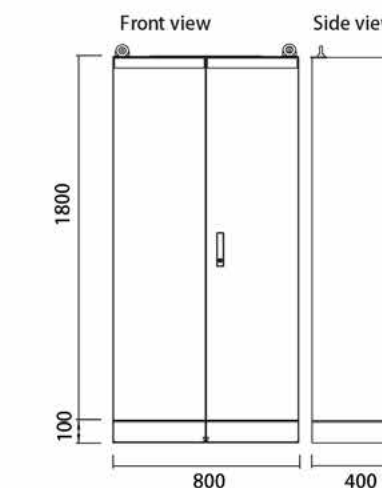
IACS outstation (wall mount)



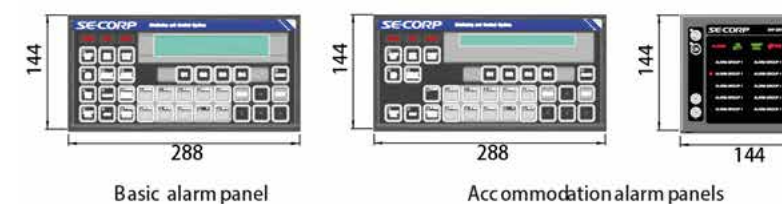
IACS outstation (wall mount)



IACS outstation (floor mount)



Operator panels for duty alarm system



Product Contour Drawing

22" / 26" TFT console mounted



## Product Feature

- High resolution graphics and modern software design
- Wide selection of high resolution displays
- Operator panels for console/bulk head mounting
- Field station for process IOs in a variety of sizes
- Process IOs and controllers integrable into switchboards, bridge consoles etc.
- Alarm/log/event printer (dot-matrix)
- Duty alarm system, engineer call system
- Bridge watch alarm system including navigator fitness check according to MSC.128(75)
- Standard interfaces/protocols by RS485/RS422 to all major marine suppliers
- Redundant LAN network or fieldbus for long distance
- Graphical printer for reports/graphs trending



## Software Features



人机交互界面

## Software Platform

The software platform adopts block design concept, provides a vast library of function blocks, including variants of valve controls, generator controls, PID loop controllers and etc. The flexible invocation of the modules can easily monitor and control the marine equipments.

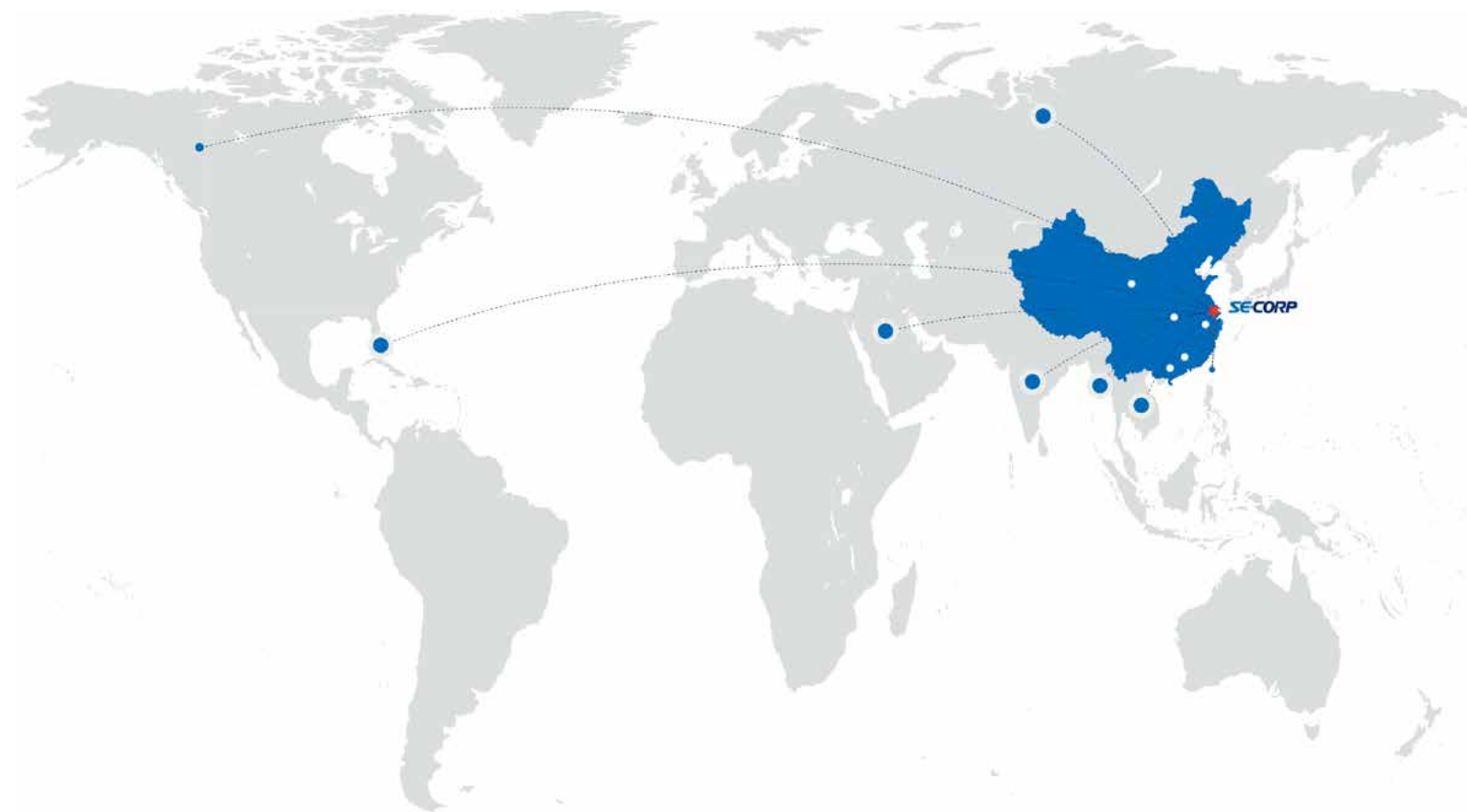
## System Architecture

The system uses redundant LAN network architecture. The networked system is highly scalable and offers superb flexibility to optimize safety and redundancy, as well as cost effectiveness. Whether a small scale alarm system or complete integration of the navigation and automation systems, it will fit perfectly onboard your vessel. All critical components, IO and controllers utilized in the system are world well-known products, thus ensuring long-term through life support and the safe guarding of your investment.

## Software features

- Friendly human-computer interaction scheme
- Online diagnostics for crew maintenance
- Scalable from small stand-alone systems to large integrated systems
- Wide range of standard functions
- Long lifetime and huge customer base

## Global Services



We provided service for project of Shanxi Diesel Engine Heavy Industry Co., Ltd. in Antigua and Barbuda

We provided service for project of Consort in sigapole

We provided service for project of ZGPT Diesel Heavy Industry Co. Ltd. in Pakistan

We provided service for project of Xixiakou shipyard Co., Ltd. in Singapore

We provided service for project of LongShun Fishing Company in Taiwan.

We provided service for project of CNBM in Iraq.

We provided service for project of Zijin Mining Group Co., Ltd in Russia.

We provided service for project of BPOB-RPCL Proergen LTD., in bengal

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We will continue to provide high-quality service for our users all over the world.

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