

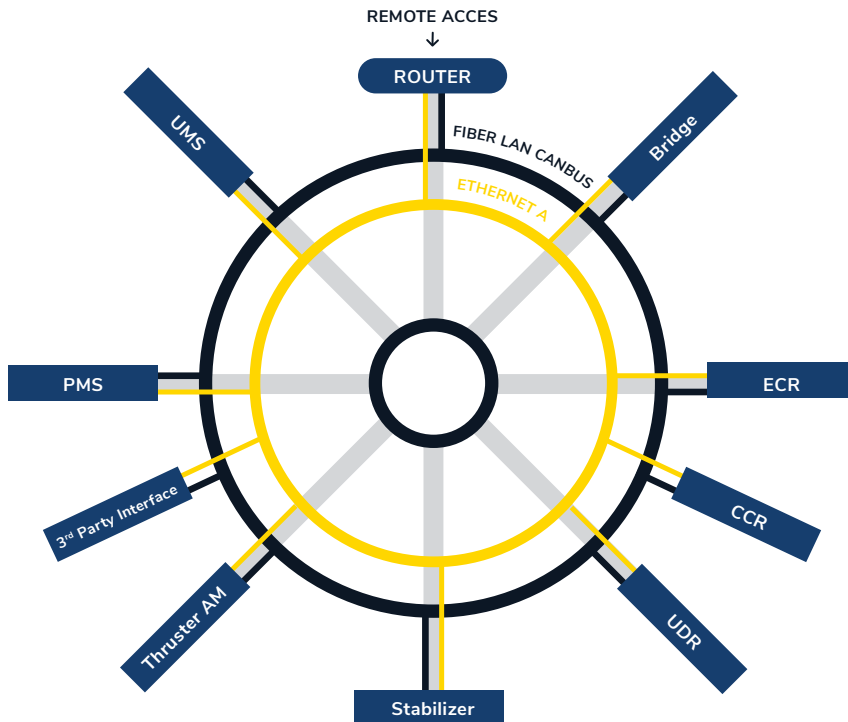
**SOLUTIONS
FOR MARINE
AUTOMATION**



SUBSEA CONNECT

AUTOMATION

DIGITAL MARINE AUTOMATION FROM A SINGLE SOURCE



PMS

POWER MANAGEMENT SYSTEM

The MIDAS MPMS is designed for to handle marine power plants for all kinds of purposes, from Diesel and hybrid propulsion to complete high voltage systems. The MPMS can be fully integrated into the Midas MAMS.

The MPMS CPU has numerous functions;

- > Load Control
- > Load Sharing
- > Fully automated start/ Stop for generators
- > Load analyzing and monitoring
- > Redundant power distribution
- > Bus-Tie current compensation
- > Bus-Tie Trip Detection

Network Topology AMS

PLC-BASED ALARM, MONITORING AND CONTROL SYSTEM

The MIDAS 1000 is our alarm, monitoring and control system (MAMS), who aim for the highest demands in usability, flexibility and system availability. It is used to monitor and control your ship's technology, such as engines, generators, pumps, valves, ventilators or other auxiliary systems. The 1000 is a PLC-based AMS with decentrally placed subsystems. Each subsystem is operating independently with a high performance I/O CPU master and its slave units and is connected to other subsystems. The system can be easily adapted to customer requirements. With features like data logging, trend monitoring, alarm and event history and user right management, the system is ideally suitable for sophisticated applications. Furthermore, the system can be easily extended with remote access. The optional alarm extension indicates the system status anywhere around the ship.



SUBSEA CONNECT

INTEGRATED SHIP SOLUTIONS

We believe we can fully unburden you. We do this by offering the best flexible service and support.

Subsea Connect offers ship automation solutions, which can be fully customized and adapted. We support you from the design, planning, implementation and commissioning stages and servicing. We develop and produce all products and components together with our R&D and production facility. We can therefore assure parts availability for numerous years.

Subsea Connect offers:

- > Highly skilled service engineers
- > Tailor made solutions
- > Fast and flexible service
- > Thinking outside the box

MIDAS Automation Platform

MIDAS is a flexible master-slave system featuring a central control unit and further I/O components with a wide spectrum of applications. Each automation system consists of one or several independent sub-systems that are linked by a redundant bus. This configuration ensures maximum operational reliability.

We believe in our automation engineering applications with our flexible and open automation platform MIDAS. This system is based on recognised industrial standards with perfectly matched hardware and software components. It is suitable for complex applications that require maximum operational reliability. All parts are individually approved by all major class. Societies, BV, DNV-GL, Lloyds, ABS, etc.

We realise all automation engineering applications with our flexible and open automation platform MIDAS.

PMS

Power management systems

IPMS

Highly complex and integrated platform management system

PRO

Propulsion control systems for ship propulsion

AMS

Alarm, monitoring and control systems

LOPs

Local operating panels
Gearbox monitoring and control systems, safety systems for ship propulsion and generators, startstop systems, etc.

AES

Alarm extension system/
duty alarm system

TLMS

Tank level measuring systems

SA

Simple applications
Speed measuring systems, data loggers, monitoring systems, control systems for pumps, valves, fans, etc.

EOTS

Emergency order telegraph systems



SUBSEA CONNECT

PROPULSION

PROPULSION CONTROL FOR YOUR SHIP



Network Topology Propulsion

MIDAS PROPULSION SYSTEM

MPS is a modular and flexible control system which can be adapted to every thruster system or main propulsion.

It has modular and adaptive availability for remote propulsion control on the bridge, aft bridge or wings and ECR. Each control station can be expanded with various operator control panels and can be easily adapted to any customerspecific requirement. All system components are interconnected by field bus technology and is redundant. The redundant bus concept of the control desk ensures maximum operational reliability.

The MPS lever was developed for ship automation and propulsion systems. It is the perfect addition to the propulsion control system. The lever is available as a single or a double type and is fully electronic with an integrated data interface.

Third party integrations

The fully electronic version of the control lever can be connected to any automation system via a redundant CANbus or via the integrated RS-485 interface with MODBUS-RTU or the ExtBus protocol of our MAMS automation platform.

- > Interfaces external Control
 - Autopilot
 - DP 1 / 2 / 3 system
 - Joystick system
- > Voyage data recorder (NMEA)
- > Interface dredge control
 - Discharging mode
 - Dredging mode
- > Interface main switch board
 - Generator demand
 - PTI mode
- > Interface gearbox/shaftline
 - Main clutch
 - PTO / PTI / PTH Dutch
 - Shaft speed response
- > Interface main drive
 - Load
 - Speed response / demand
- > Interface propulsion
 - Angle feedback #1
 - Angle feedback #2
 - Hydraulic monitoring



SUBSEA CONNECT

STAND ALONE PRODUCTS

CONTROL THE CONNECTIONS ON YOUR SHIP

Hardware

MIDAS CONTROL TOOLS

- > Sensors
 - Speed sensors
 - Pressure transducers
 - Temperature sensors
 - Combi-sensors
 - Rotary position sensors
- > Analogue indicators
- > Processing devices
- > Tank level measuring systems
- > Speed measuring systems
- > Data loggers
- > Control systems for pumps
- > Control systems for valves
- > Control systems for fans, etc.

Stabilizers

MIDAS MSCS STABILIZER

The MIDAS MSCS stabilizer control system is configured for retrofit purposes. The MSCS is highly innovative and is using vessels speed, ROT and Roll sensors to immediately adapt to the output of the fin. By constantly monitoring sea state and sensors we will keep rolling of the vessel to a minimum.

Safety systems

COMBUSTION ENGINES

The MSS monitors the primary operating parameters of an engine. It is the central unit for triggering an emergency shut-down of the engine to avoid damage. They are suitable for almost all types of engines and can be directly installed on the engine. It ensures maximum safety and system reliability. A large number of preprogrammed engine types and the straightforward class-compliant configuration enable fast adaptation to existing applications. They run a fast and quartz-precision speed acquisition.

- > Alarm extension system/duty alarm system

Emergency order telegraph systems

MEOT

MEOT, The emergency order telegraph system is flexible and scalable, it is suitable for small applications (e.g. bridge and engine room) up to large installations with several systems (multiple bridges and engine rooms). Different device versions are available for use on the bridge, aft bridge or in the engine control room.



CONTACT

Subsea Connect is committed to bring the world of maritime, technology and people together. We strive to bond with our clients and our partners to give the best solution when it comes to maritime technology.



Visiting address
Lange Kleiweg 28
2288GK Rijswijk
The Netherlands

We have created a technical infrastructure to provide you technical support by the best professionals in the industry and to stay connected with each other around the clock.



For a list of our agents and sales or service offices, please check our website.

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www.subseaconnect.com

LOCATIONS

A STRONG GLOBAL PARTNER, CLOSE TO YOU



SERVICE & SUPPORT

We can show you slick presentations and give you a nice and fancy sales pitch, but we chose not to. We like to turn it around and ask you the question; what do you actually need?

CONTACT US: SERVICE@SUBSEACONNECT.COM

We are a maker independent service provider for all propulsion control systems, automation and dynamic positioning.

- > We believe in transparency.
- > Our approach is firm and to the point.
- > Flexibility is one of our core elements.
- > Our pricing is competitive.
- > We are always one step ahead.
- > We will fix your problem.



CONTACT & LOCATIONS

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MEET SANNE REIJS

SENIOR SERVICE ENGINEER FOR SUBSEA CONNECT

What is it like to be a Service Engineer for Subsea Connect?

What I like most about Subsea Connect is the culture and the spirit within the company. The relationship I have with my colleagues and the management, and the freedom to say whatever is on my mind. The spirit of doing better and provide as much added value as possible keeps my work interesting and challenging.

What do you like most about your work as a service engineer?

The fact that I can both travel the world and fully indulge myself in my passion for maritime technology. I like the technical challenges this work entails and working under great pressure, because there really is no better feeling than when everything is fixed in the end.

"A NORMAL DAY DOESN'T EXIST IN MY FIELD OF WORK. BUT THAT'S WHAT I LIKE ABOUT IT. ONE DAY I'M IN DUBAI WORKING ON A NEW PROPULSION CONTROLS SYSTEM FOR A VESSEL AND THE OTHER DAY I'M IN MIAMI ON A SEA TRIAL SAILING ALONG ONE OF OUR CLIENTS VESSELS."



What does your average day look like?

A normal day doesn't exist in my field of work. But that's what I like about it. One day I'm in Dubai working on a new propulsion controls system for a vessel and the other day I'm in Miami on a sea trial sailing along one of our clients vessels. No day is the same and I get to meet new people from all sorts of nationalities everyday. Although I'm traveling a lot, I can still find a good balance between work and leisure. After a job I will always enjoy some free time, to be with my family.

Where do you see yourself in a few years?

I want to keep on developing myself, by learning new disciplines and keeping up with the innovations within the maritime industry. I'm happy that Subsea Connect is offering me the chance to develop myself.



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Subsea Connect is your partner in propulsion controls, automation and dynamic positioning. Subsea Connect is founded on the urge to do better, by offering quality, quick response times, flexible service and reliability.



SUBSEA CONNECT