



Marine and Offshore

Solutions for effective fleet management

Maritime 4.0

Maximize your fleet efficiency

Reporting of online data is constantly increasing to reach the highest possible fleet efficiency and to meet international regulations. Together with our partner M.A.C. System Solutions we offer a solution to facilitate collaboration between ship and shore by continuous online monitoring. You gain full insight into your fleet performance with one click. As a result your energy efficiency as well as your fuel consumption will be improved and emissions will be reduced.



Your benefits

- ✓ Be MRV and IMO DCS ready with our basic system to meet port emission regulations
- ✓ Low installation cost by easy implementation for quick start-up
- ✓ Worldwide fleet performance at a glance for increased transparency of your operations
- ✓ Easy integration of the system since no welding is necessary
- ✓ Save cost and time by remote trouble shooting

Value from your data



Know your ship

Access the vessel's information wherever it is in the world. Selected data is periodically synchronized to secure and reliable onshore servers to reduce data usage. Your shore-based personnel can access the full fleet performance data in a structured and well organized way with consistent data from any web-connected device.

Manage your investments

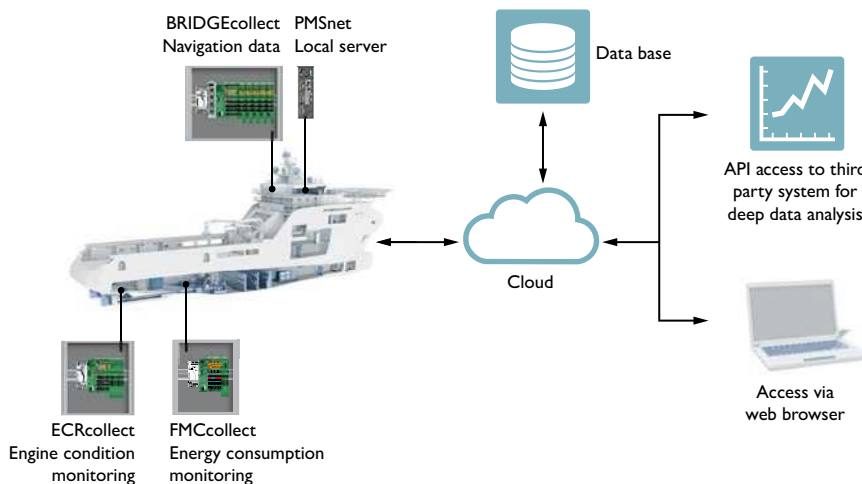
Fit your ship with easy to implement standard components for improving your vessel's efficiency. Create the baseline with solutions like charter-party compliance, noon reporting and MRV reporting. Based on your needs and for a maximum return on investment, you can extend the ship with additional components at any time. You will be provided with a full performance analysis to further optimize your vessel.

Maximize your performance

Benefit from expanded insight by visualizing data in a fleet-wide overview. Key performance indicators are tracked, and as a result fuel consumption and emissions will be reduced. Boost your performance by identifying issues early using predictive maintenance and performing diagnostics remotely.

Future-proof solution for your fleet

Requiring only a few data collector units, the online system is able to collect all essential sensor data. The data collector setup is designed for easy installation and low maintenance. Fuel oil consumption, shaft power, trim / list and certain nautical data points are collected frequently. 15 minutes average values will be logged and transmitted via a cloud-based system to shore. The collected data can be viewed by both office and vessel. For further analysis, an open interface to third party systems is available.



MRV READY

All vessels equal to or larger than 5000 GT calling an European port are required to publish the results of monitoring, reporting and verification (MRV) of CO₂ emissions based on regularly collected data. Our reporting system includes all data to automatically fulfill the EU MRV and IMO DCS regulations without additional manual work or effort.



In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 15,000 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.



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