

Onboard with Omron

We work with some of the world's leading suppliers of systems and equipment for the marine industry. Their specialist knowhow and our customer-focused approach enable us to help our customers to develop creative applications to meet the needs of the industry.

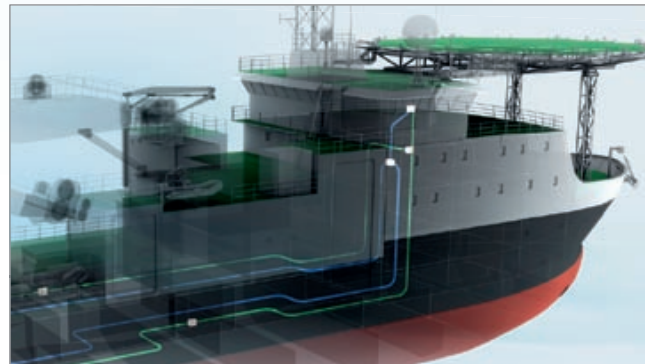


"We are proud to have Omron aboard with its solutions, including a two-wire communication system, on our latest contract for inland dry cargo vessels."

Reinier Bosman, Manager Inland Shipping Department Alewijnse Marine Systems

Alewijnse Marine Systems

Alewijnse Marine Systems has a long tradition in maritime technology. As a full line system integrator they supply technical services, innovative electrical engineering and ICT solutions for all kind of vessels. Regarding inland shipping Alewijnse has worked with Omron for years in the field of alarm, monitoring and control equipment. A typical example of the successful collaboration is a contract that has been signed recently to supply equipment for ten newbuild inland vessels at a large Dutch shipyard. Alewijnse provides the electrical systems, including lighting, power distribution and navigation lighting, with Omron control and monitoring equipment.



"It is vitally important for our R&D department to have experienced sparring partners with the knowledge and drive to challenge our engineers and push them to the limit."

Igor Jovanovic, R&D Manager Omron Europe

Vassnes Automation

Omron has worked with Vassnes Automation for several years. Highly experienced in upgrading offshore rigs, and in shipbuilding and shiprepairs, Vassnes Automation supplies solutions to the marine and other industries. The company worked with Omron in upgrading its network architecture for the future, a collaboration that led to benefits that extend far beyond the scope of the immediate project.



"We continuously monitor the market for products that we can use in our applications, but we've found no one to match Omron on price, quality and customer service."

Bente Mela's, development team leader for Kongsberg's Autochief 20

Kongsberg Maritime

Kongsberg Maritime has been supplying onboard machinery control systems since 1965 and delivered its first bridge system in 1979. The heavy demands placed on its products have led the company to rely on Omron as a key supplier for several years. Most Kongsberg systems are installed on merchant vessels such as tankers and container ships, and installation work is carried out at yards around the world. As a result, it has a policy of working only with dependable suppliers, whose solutions must meet the criteria of classification agencies such as Det Norske Veritas and Lloyds. Kongsberg relies on Omron as its automation equipment supplier of choice.

Omron's expertise and experience is closer than you think. Call your local office and we'll put you through to someone who speaks your language in every sense. And check out the marine Expert Area on our website to see how we have worked with customers to develop marine-specific applications, and to find out more about how we can put our creativity to work for you.

Just click www.industrial.omron.eu/marine



OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 www.industrial.omron.eu

Austria
Tel: +43 (0) 2236 377 800
www.industrial.omron.at

Belgium
Tel: +32 (0) 2 466 24 80
www.industrial.omron.be

Czech Republic
Tel: +420 234 602 602
www.industrial.omron.cz

Denmark
Tel: +45 43 44 00 11
www.industrial.omron.dk

Finland
Tel: +358 (0) 207 464 200
www.industrial.omron.fi

France
Tel: +33 (0) 1 56 63 70 00
www.industrial.omron.fr

Germany
Tel: +49 (0) 2173 680 00
www.industrial.omron.de

Hungary
Tel: +36 (0) 1 399 30 50
www.industrial.omron.hu

Italy
Tel: +39 02 326 81
www.industrial.omron.it

Middle East & Africa
Tel: +31 (0) 23 568 11 00
www.industrial.omron.eu

Netherlands
Tel: +31 (0) 23 568 11 00
www.industrial.omron.nl

Norway
Tel: +47 (0) 22 65 75 00
www.industrial.omron.no

Poland
Tel: +48 (0) 22 645 78 60
www.industrial.com.pl

Portugal
Tel: +351 21 942 94 00
www.industrial.omron.pt

Russia
Tel: +7 495 648 94 50
www.industrial.omron.ru

Spain
Tel: +34 913 777 900
www.industrial.omron.es

Sweden
Tel: +46 (0) 8 632 35 00
www.industrial.omron.se

Switzerland
Tel: +41 (0) 41 748 13 13
www.industrial.omron.ch

Turkey
Tel: +90 (0) 216 474 00 40
www.industrial.omron.com.tr

United Kingdom
Tel: +44 (0) 870 752 08 61
www.industrial.omron.co.uk

More Omron representatives
www.industrial.omron.eu

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Proven automation systems - for the marine industry





Creative solutions to answer the needs of the marine business.

National Oilwell Varco
Karmøy Winch Schottel S-man **Kongsberg**
 Ulstein Elektro Scanship Saipem Offshore Floatech
Alewijnse Marine Systems CRN Shipyacht Sunseeker
 OECHIES Elektrotechnik Damen Auramarine Ltd Huisman Equipment BV. **Emri**
 Furuno Vassnes Automation Aker Yards Overmarine mangusta N.R. Koeling
 Baglietto yachts **Steerprop** **TTS Marine**
 De martini research

We use our creativity to help develop solutions to challenging issues. On this page we show just a few of these, all designed to meet the specific needs of the marine industry and of companies that supply to the industry.

On shore or on board: Omron delivers...

proven performance on land and at sea

You know that the marine industry is no place for second best: which is why it pays to rely on Omron performance. From automation systems for the world's dredging fleets through to safety and alarm installations on offshore rigs, from lock-control systems for inland waterways to climate control on luxury yachts, Omron works with marine customers to deliver technically advanced and innovative solutions that the industry trusts.

Omron systems have been approved by leading classification societies, so that naval architects, shipbuilders, port authorities and systems providers can specify Omron in total confidence. Marine clients can rely on our expertise when they need answers to intricate automation requirements, because our engineers talk your language.

precise support from a global organisation

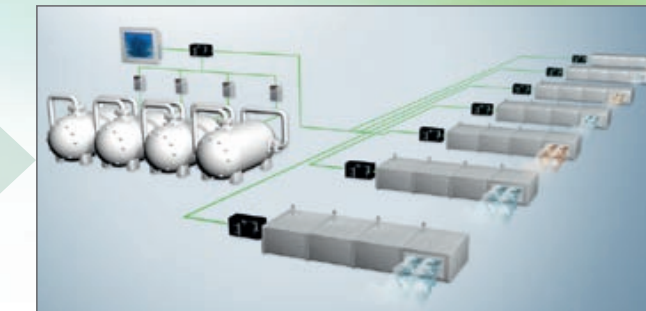
Nobody understands your business as intimately as you do: that's why we will not tell you what you should or shouldn't do. But in our experience, the most effective solutions come from matching the right resources to the right problem, people who understand the challenges facing you. The combination of your companies know-how and the creativity of our specialists in industrial automation which enables you to operate more quickly, more efficiently and more smartly than your competitors.

Omron is a truly global organisation with:

- Over 35,000 employees
- 200 locations
- Presence in every continent
- Knowledge sharing through our global infrastructure
- Local R&D facilities synchronised to local needs.

Climate control

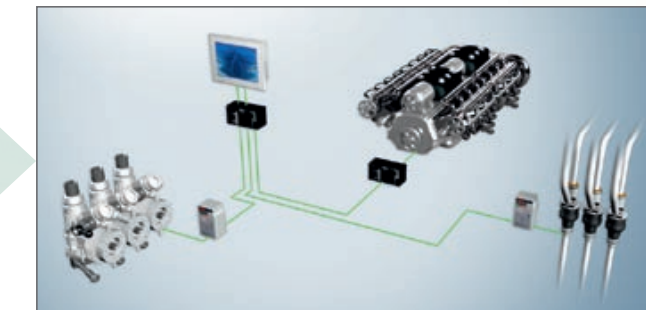
Temperature and humidity control on board vessels and rigs has to be both accurate and failure proof. But equipment must be able to operate in unfavourable ambient conditions, such as exposure to salinity and greatly varying temperatures and vibration levels. Moreover, flexible solutions are required so that various third-party solutions can also be connected. And all equipment must be approved for maritime use.



Omron equipment for HVAC monitoring and control includes inverters, controllers, HMI and IPCs. These offer an integrated solution for heat-driven absorption water chillers producing cooling capacity on board large ships, yachts and rigs. Omron solutions, which are used exclusively by global players, cover any type or size of vessel.

Alarm and monitoring

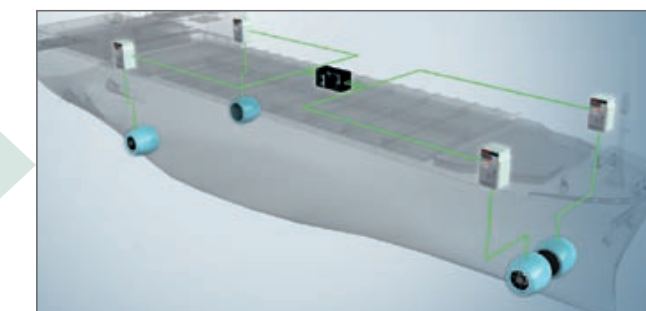
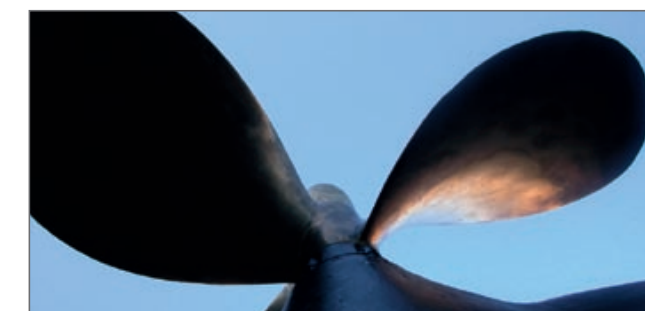
The first warning of any failure on-board ship is given by the alarm and monitoring system. This gives the ship's officers all the basic information they need to maintain safe and efficient operation of the machinery and related equipment. But integrating the diverse monitoring groups, such as engine, thrusters, bilge, water, power, climate control, communications and entertainment, is a complex task. And solutions must be failure proof and operate seamlessly.



Omron has a large choice of solutions that will always connect, despite the different systems and protocols prevailing in the industry. Failure is no problem either, with Omron's PROFINET redundant network possibilities providing back-up should one or more controllers fail. Alarm messages can be repeated and logged at touch screens or IPC installed at any ship's station. And HMI on the bridge are of course dimmable at night.

Thruster control

Bow and stern thrusters increase a vessel's manoeuvrability, making docking easier and reducing physical damage caused by ping-pong docking. However, port and harbour authorities are becoming increasingly concerned with the environmental impact. Thrusters powered by electric motors are helping in this respect. Not only do they eliminate the environmental impact by reducing noise, emissions and vibration. They also reduce fuel consumption.



Electric motors, as used to drive winches, pumps, cranes and thrusters, all require control of the motor speed. A frequency inverter combines a dependable drive with excellent starting torque and accurate speed control. Omron offers a wide selection of inverters in ratings from 1 to 1200 kW. Inverters rated up to 300 kW can be supplied from stock to provide optimum motor control with smooth and silent operation.