

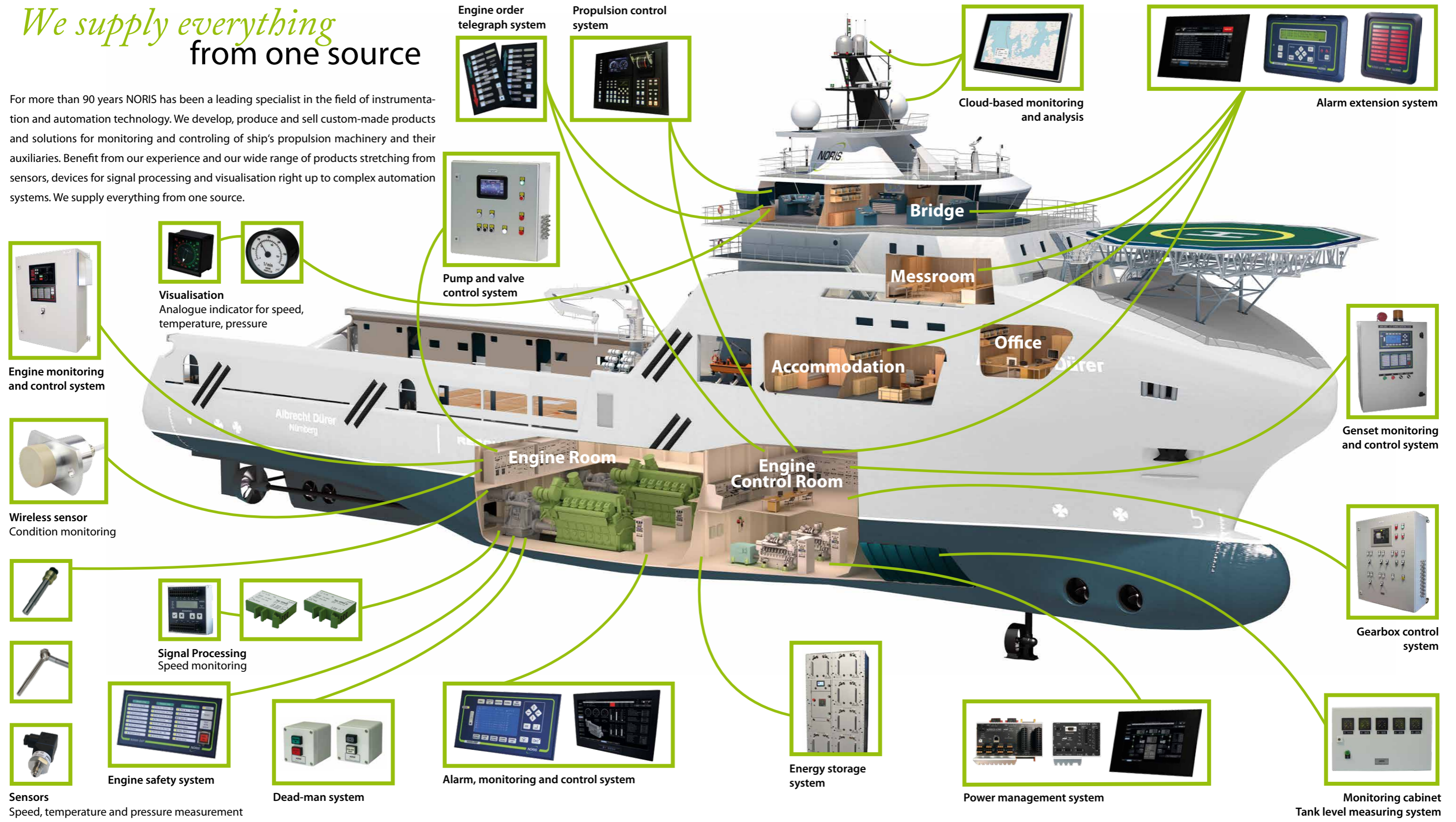


*NORIS-Solutions*  
for Marine Automation



# We supply everything from one source

For more than 90 years NORIS has been a leading specialist in the field of instrumentation and automation technology. We develop, produce and sell custom-made products and solutions for monitoring and controlling of ship's propulsion machinery and their auxiliaries. Benefit from our experience and our wide range of products stretching from sensors, devices for signal processing and visualisation right up to complex automation systems. We supply everything from one source.



**AUTOMATION SYSTEMS** | Data acquisition systems | Alarm, monitoring and control systems (AMCS) | Alarm extension systems | Safety systems for combustion engines | Power management systems | Propulsion control systems for ships | Engine order telegraphs | Tank level gauging | Dead-man systems | **SENSORS** | Speed sensors | Temperature sensors | Multi sensors | Wireless sensors | Speed encoders | Pressure transducers | Rotary position sensors | Tachogenerators | Sensor combinations | **SIGNAL PROCESSING** | Measuring transducers | Limit value switches | Multifunctional devices | **VISUALISATION** | Analogue indicators

**RETROFIT - Upgrade your automation equipment**  
Time leaves its marks on high quality and robust products and systems as well. Spare parts are often no longer available and repairs of old systems no longer economical. We modernise or upgrade your automation system according to your preferences.

We have already developed retrofit solutions for many of our own products and systems which can be easily replaced via Plug and Play (e. g. for engine safety systems type KN923 or remote control type NORISTAR 2000). We would be pleased to advise you in terms of upgrading your current equipment.



- Future-proof operation thanks to state-of-the-art technology
- Maintenance and spare part availability for more than 15 years after official product line termination
- Extensive customer support provided by our service hotline as well as service and maintenance contracts to ensure continuous operability of your equipment
- Fast and easy servicing thanks to pre-engineered components
- One-to-one replacement of existing automation components and integration of additional functions
- "Plug-and-play" replacement solutions available for many existing NORIS products
- All NORIS-RETROFIT solutions offer a high „Return on Investment“
- Approved by ABS, BV, DNV, GL, LR etc.

# An overview of our services

As an experienced manufacturer of devices and systems for measuring and automation technology, not only are we experts on which components and system parts are subject to particularly high levels of stress, but we are also ideally placed to know what really matters in our field.

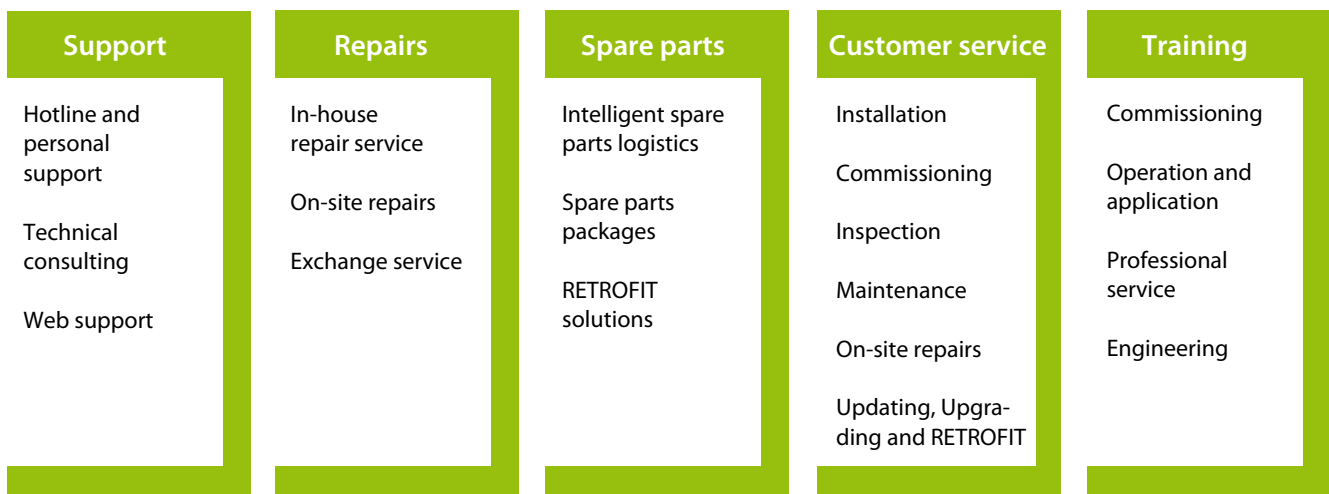
There is a continual stream of new guidelines to be adhered to; standards have to be met; operating costs reduced; service and maintenance costs kept to a minimum; and downtimes avoided.

In an ideal world, service work would not be necessary at all. Since the real world is different, a response that's fast, simple and comprehensive is required when service work does come up – and what is more, it has to be one that doesn't compromise on quality. That's how to deliver the highest level of service. And it's exactly the method we've been using to inspire our customers over several decades.

## We are there for you through the entire life cycle of our products



## Customer support and service at a glance



NORIS Group GmbH  
Muggenhofer Str. 95  
90429 Nuremberg  
Germany

Phone: +49 911 3201-220  
Fax: +49 911 3201-150  
sales@noris-group.com  
www.noris-group.com

■ Nuremberg ■ Rostock ■ Rotterdam ■ Singapore ■ Shanghai

