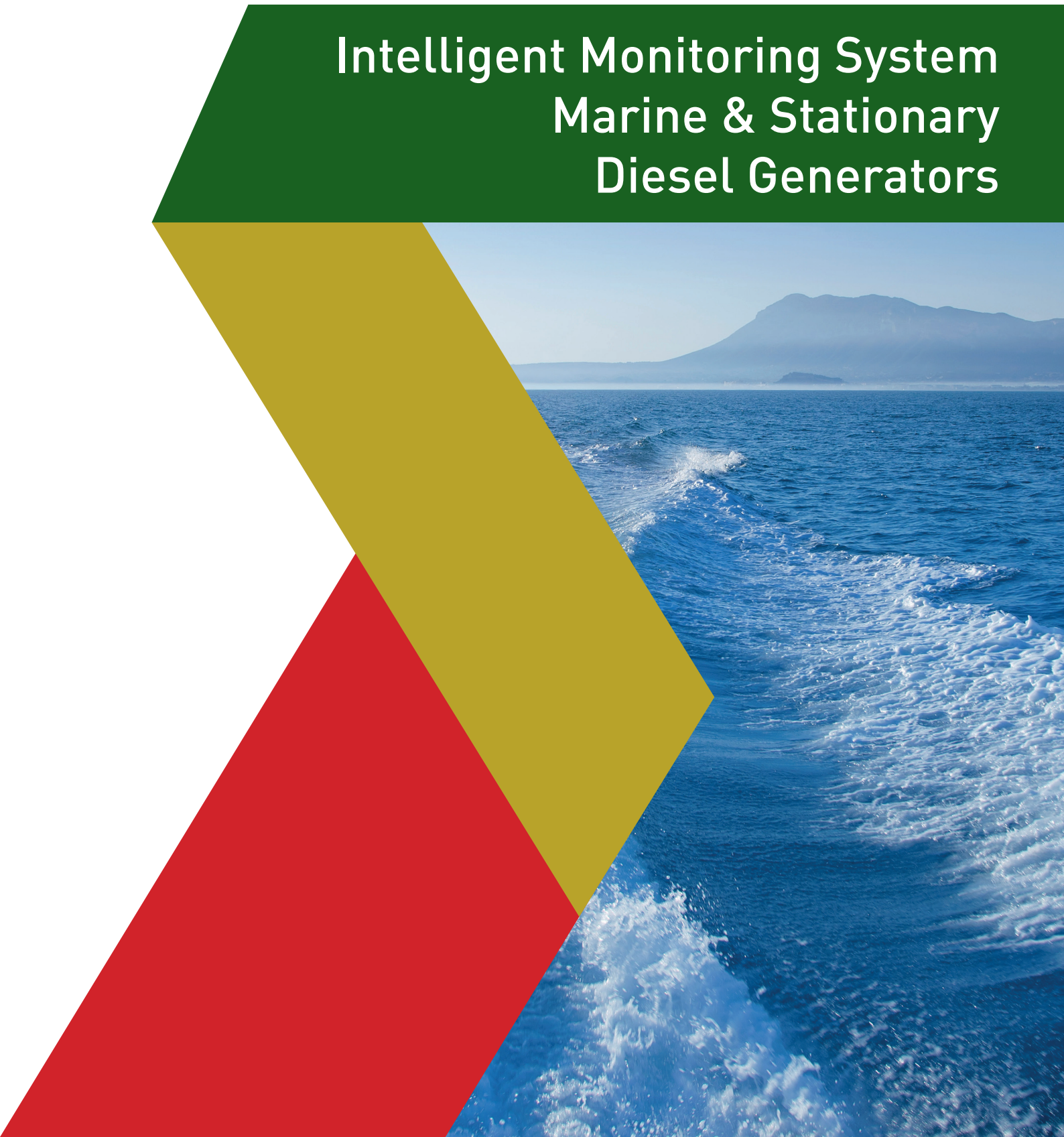




Intelligent Monitoring System Marine & Stationary Diesel Generators





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Intelligent Monitoring – iMS from **INPIRIO AS** is the process of monitoring a parameter of condition for **Marine & Stationary Diesel Generators** (vibration, temperature, relative displacement, air, gap, etc.), in order to identify a significant change which is indicative of a developing fault.

It is a major component of Predictive maintenance.

The modularity of the Intelligent Monitoring System allows customization of all critical user information for optimized asset management.

Accountability for risks and more importantly, for the controls and the monitoring, assurance of controls is clear and not doubtful.



Speciality to predict



Features of Intelligent Monitoring System Marine & Stationary Diesel Generators

Expert on-line monitoring system for Marine & Stationary Diesel Generators. Modular and upgradeable system for new, as well as for existing Marine & Stationary Diesel Generators equipment

IMS Features

- > Expert on-line monitoring system for Marine & Stationary Diesel Generators Industry
- > Modular and upgradeable system for new, as well as for existing
- > Long-term data storage and important events tracking
- > Restrictive class based data archiving (smart/real trending)
- > Local and remote system access
- > Automated warning based on real trending
- > Detection of problems related with bearings, eccentricity and rotor cage
- > Unique approach for all integrated equipment
- > Preventive maintenance of key equipment
- > Longer life expectancy
- > Support in decision making through remote access
- > Reduction of cost due the unplanned stops caused by machine faults
- > Participation of users in the creation of unique system based on custom requests



**“We are constantly helping you measure
the risk exposure of your system.”**

The background of the slide is a composite image. The top half shows several industrial smokestacks or chimneys against a bright, hazy sunset sky with orange and yellow tones. The bottom half is a close-up, slightly blurred view of a large industrial engine, likely a diesel generator, showing various pipes, valves, and mechanical components in shades of blue and grey.

Concept of Expert on-line monitoring system for Marine & Stationary Diesel Generators

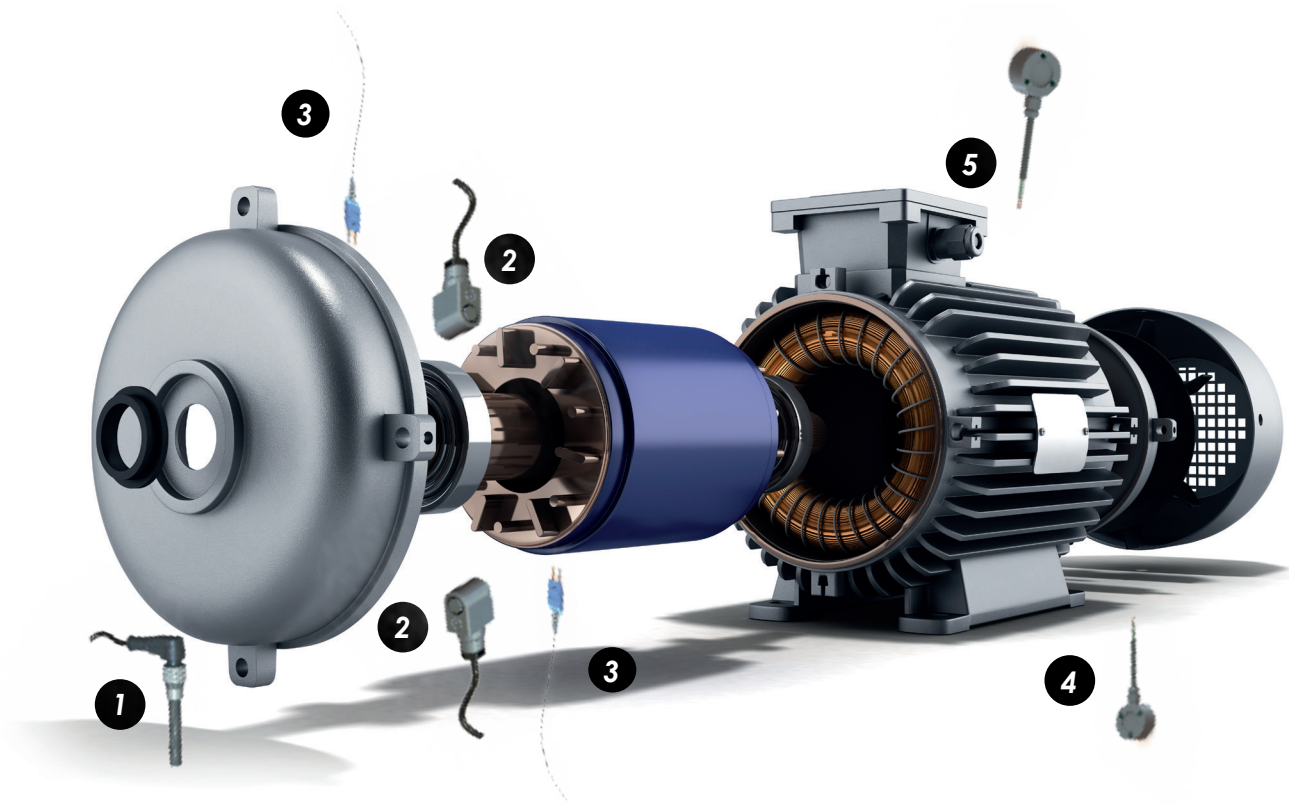
Our system uses more than a hundred sensors for various measurements and can be adapted to meet customer specific requirements and situations.

The hardware is made to meet the strictest standards depending on the operational environment (dust, humidity, magnetic field protection, water, etc.) and most of the hardware can be adapted to meet the visual requirements for the customer.

More than a hundred sensors for various measurements and can be adapted to meet customer specific requirements

SENSORS:

1. Displacement sensor (bearing/shaft)
2. Vibration sensor (bearing)
3. Temperature sensor (bearing)
4. Motor current sensor (connection box)
5. Magnetic field sensor (air gap)





A large offshore oil rig is silhouetted against a bright orange and yellow sunset sky. The rig's complex structure, including several large cranes and a central derrick, is visible. The rig is positioned over a body of water, which reflects the warm light of the setting sun. The overall scene conveys a sense of industrial scale and the challenges of offshore operations.

“The main purpose of Intelligent monitoring analysis is to provide you a Risk Mitigation.”



iMS Smart Motors Program

Marine Smart Motors

Motors for Thrusters and Technological Drives

Ratings: 75 – 10000 kW
Voltage: 400 – 11000 V

Water Jacked Cooled Motors for Ship
Propulsion and Winches

Ratings: 325 – 4800 kW
Voltage: up to 690 V

Stationary and Marine Smart Generators

Applications

Off - Shore and On - Shore Diesel Generators

Low Voltage Generators
Outputs 400 - 2000 kVA

High Voltage Generators
Outputs 1000 - 15000 kVA



Summary:

Performance:

We are using our broad experience to support efforts to maximize availability and reliability, and optimize process performance and maintenance planning

Assured QUALITY:

Our equipment is built to last as we provide units with extended temperature range and IP range up to IP69

Modularity:

Our system is completely modular, so new measurements can be easily added without system downtime, or with as little downtime as possible

User friendly:

Web interface with our system is completely user-friendly, and can be tailor-made to the clients specific wishes

Easy implementation:

- Implementation of our system is made to be easy and with as little downtime as possible

Smart trending:

- For the highest level of the system (**ZERMATT**) – smart trending is offered – trending of all data with a specific, or multiple restrictive classes in mind.

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