

orga

# The way ahead in Aids to Navigation systems

IALA COMPLIANT, RELIABLE AND EFFICIENT



# When safety matters most you can trust in Orga.

For over 45 years, Orga is delivering high quality and reliable Aids to Navigation solutions for marking offshore platforms making them more visible for passing marine traffic. Our offshore specialists together with our in-house research and development department ensures that we remain at the forefront of emerging technologies. This results in innovative, reliable and cost-effective solutions.

Whether it is a new-build project, a decommissioned or abandoned platform or if you are upgrading an existing structure, Orga's Aids to Navigation solutions are suitable for all kinds of projects.

To contribute to the safety of the people, assets and the environment we understand it is necessary to take international and national requirements into account. Therefore all our Aids to Navigation products meet the latest IALA (International Association of Lighthouse Authorities) requirements and are compliant with regional regulatory requirements.

At Orga we don't just help you meet these challenges, we help you to stay ahead of them.



Innovative, reliable & cost effective Aids to Navigation solutions.



Over 45 years of experience in Aids to Navigation



Full compliance with regulations (IALA, USCG, etc)



High quality products. Easy to install, maintain and repair.

*"Orga is widely acknowledged to be the industry's number one supplier of quality marine Aids to Navigation."*



# Your structure marked in line with international or local requirements.

The offshore industry is obliged to comply with a large number of safety standards. The recommendation for marking offshore structures is the IALA O-139 standard (International Association of Lighthouse Authorities). Our offshore specialists and in-house research and development department make sure our Aids to Navigations solutions are in compliance with the latest IALA standards.

Next to the IALA recommendations, each country can develop their own national regulation. This can differ in colours, numbers and light characteristics. Due to the overall design of our products, our system is able to quickly adapt to different regulations such as USCG (USA), NORMAM 17 (Brazil), OPRED (United Kingdom), Mijnbouwregeling (The Netherlands), Kystverket (Norway), etc.

Do you have specific requirements? No problem, at Orga we work closely with our customers worldwide to make sure your Aids to Navigation is fitted to your needs.



**Marking the way**  
for safe navigation



# Easy monitoring of your system, with our digital control panel.

Our Aids to Navigation products can be controlled and monitored completely remotely by our state-of-the-art Digital Navais Central Control Panel (D-NCCP). The control panel is available in both, non-certified and gas hazardous area certified. It is based on a modular design in combination with a touch-screen display. The display on front of the panel is showing the status of all connected Aids to Navigation equipment.

Due to the I/O module inside, the control panel can easily communicate with the platform control system (SCADA/DCS). It is able to provide hard wired contacts, RS485 Modbus, Ethernet TCP/IP Modbus or Ethernet TCP/IP http webserver transmission. It transfers health status and alarm signals to a (remote-) location, through the SCADA/DCS system. For unmanned platforms, this will save you on transportation and maintenance costs.

The innovative design and configuration together with the touchscreen makes the system user-friendly and intuitive for all users. Due to the modularity of the system, it can also be combined with the controls for helideck lighting and/or obstruction lighting.



Explosion proof Digital Navais Central Control Panel



Touch screen interface  
(to allow full system interaction)



Easy to maintain and  
set-up



Full compliance with  
regulations  
(IALA, USCG, etc)



Other Orga solutions  
can be connected

*“Effective, reliable Aids to Navigation systems are essential for safety and ensuring that offshore structures are visible to all vessels in all weather conditions.”*



## L410 Marine Lantern

The Orga marine lanterns fully comply with the requirements of the International IALA O-139 recommendation (International Association of Lighthouse Authorities). These marine lanterns mark the offshore structure at night and during low visibility by ensuring that at least one light is visible upon approaching the structure from any direction. The lanterns are activated at sunset until sunrise and at all times when the meteorological visibility in any direction is 2NM or less.

The L410-W-10 marine lantern is designed to provide 10NM white omni-directional visual coverage. The L410-W-10 has a minimum effective intensity of 1,400Cd. It is a white light, flashing in Morse code 'U' every 15 secs controlled by the Digital Navaid's Central Control Panel (D-NCCP). The L410-R-03 marine lantern is designed to provide 3NM red omni-directional visual coverage. The L410-R-03 has a minimum effective intensity of 15Cd. It is a red light, flashing in Morse code 'U' every 15 secs controlled by the D-NCCP.



- **15NM & 10NM White version**
- **Works in conjunction with D-NCCP**
- **For operating in UK sector**

## L410 Main & Secondary Marine Lantern

Orga's L410-W-15F is an explosion proof combined main & secondary marine lantern providing 15 and 10NM white omni-directional visual coverage. Any offshore structure that is operating in the UK sector should be marked with these lanterns, in combination with L410-R-03, to ensure that at least one is visible upon approaching the structure from any direction.

It is designed to provide 15NM white omni-directional visual coverage during normal mains supply operation and during failure of this lantern, the 10NM light takes over. During a mains failure the 10NM light becomes active with power of the battery pack.

Flashing white light in Morse code 'U' every 15 secs, the main lantern has a minimum average intensity of 12,000Cd. The secondary lantern has a minimum average intensity of 1,400Cd.



- **10NM White or 3NM Red version**
- **LED marine lantern**
- **Works in conjunction with D-NCCP**

## FH800(3) Omni-directional Foghorn

The Orga foghorn FH800(3) fully complies with the requirements of the IALA O-139 recommendation.

Due to smart technology we can operate this foghorn with a low power consumption. The sound character of the foghorn is Morse code 'U' every 30 secs and is controlled from Orga's Digital Navaid's Central Control Panel (D-NCCP) or from a local control panel. The foghorn signal can be activated whenever the meteorological visibility is 2NM or less by means of a visibility meter, and can be powered from a solar system or other type of UPS system. For specific regions in the world, the foghorn can also provide other characteristics.



- **Automatic ON/OFF control in low visibility of the foghorn or lanterns**
- **Works in conjunction with D-NCCP**
- **Explosion proof**

## VDX05 Visibility Meter

Orga's visibility meter/fog detector is based on the back scatter operating principle with a long life laser LED. It provides a continuous visibility indication needed to control the foghorns and lanterns on the offshore location. The unit is provided with output signal for automatic control of the marine lanterns and foghorns, because of changing weather circumstances. The unit is made of stainless steel which makes it extremely suitable for offshore environments. It is provided with self-monitoring functions to ensure long term operation.



- **2NM Omni-directional foghorn**
- **For central and decentral concept**
- **Available in main/secondary concept**

## SS24 External Photocell

Orga's explosion proof photocell provides automatic control of the marine lanterns at dusk and dawn, when used in conjunction with Orga's Digital Nav aids Central Control Panel (D-NCCP). It measures the outdoor light level and relays this information to the control panel, which automatically controls the activation and deactivation of the marine lanterns and when applicable, also Orga's obstruction and/or helideck lighting. The compact design and non-metallic body of the photocell houses a cable connection compartment and is suitable for use in Zone 1 and Zone 2 gas explosion hazard areas.



- **Automatic ON/OFF control of lanterns**
- **Works in conjunction with D-NCCP**
- **Reliable and corrosion free design**



## ITR04 Racon

The Orga radar beacon (racon) has been designed in accordance with IALA specifications and transmits a Morse code character that is activated by structures or passing vessels. They respond to radar pulses transmitted by every vessel that is in your structures surroundings. It is fabricated from a stainless steel housing, fitted with an impact resistant synthetic antenna dome with an anti-bird spike. For maximum compatibility and flexibility, our racons are designed to work in conjunction with Orga's D-NCCP.

- **Automatic vessel identification**
- **X and S bands with side lobe suppression**
- **Explosion proof**



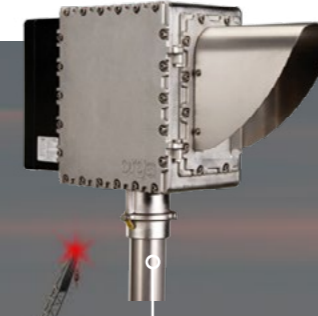
**SS24 External Photocell**  
Automatic ON/OFF control of lanterns  
Works in conjunction with D-NCCP  
Reliable and corrosion free design



**D-NCCP Digital Nav aids Central Control Panel**  
Smart modular design for easy maintenance and set-up  
Touch screen user interface to allow full system interaction  
Control and monitoring of all Aids to Navigation equipment



**VDX05 Visibility Meter**  
Automatic ON/OFF control in low visibility of the foghorn or lanterns  
Works in conjunction with D-NCCP  
Explosion proof



**ITR04 Racon**  
Automatic vessel identification  
X and S bands with side lobe suppression  
Explosion proof



**L410 Main & Secondary Marine Lantern**  
15NM & 10NM White version  
Works in conjunction with D-NCCP  
For operating in UK sector



**L410 Main Marine Lantern**  
10NM White version  
LED marine lantern  
Works in conjunction with D-NCCP



**L410 Subsidiary Marine Lantern**  
3NM Red version  
Works in conjunction with D-NCCP  
For operating in UK sector



**FH800(3) Omni-directional Foghorn**  
2NM Omni-directional foghorn  
For central and decentral concept  
Available in main/secondary concept





# A decentralised system that complies to your requirements.

In addition to the well-known Digital Navais Central Control Panel (D-NCCP) system, Orga is able to design and supply a decentral system. With this system each marine lantern will have his own control panel/power supply system and battery pack, for power regulation, flash character and photocell control. Depending on location or client specifications the decentral system can be powered by a solar panel system or a AC powered battery charger system.

In order to comply with the IALA standards, the flash character of the lights on the structure needs to be synchronised. This can be realised by a conventional synchronisation and control cable (OrTalk) or by a cable free GPS system. With this GPS synchronisation system, all marine lanterns are synchronised and will flash in synchronism, also on adjacent platforms.



Single lift design for easy installation



Available in solar or mains operated version



GPS synchronisation saving on cable costs



Low maintenance delivers operational savings



# Why make business complicated when the solution is just one call away?

With over 45 years of experience, Orga provides the right advice and guidance during the complete project process. With our expertise we can find a reliable and cost-effective solution for your certain project.

Since Orga started as a service company, we still have a dedicated team of certified service engineers. For example, to carry out a site survey to inspect your installed system on your assets, resulting in a full inspection report.

The main goal of our services is to provide safety and compliance with regulatory requirements. We trust that with our expertise, we can provide you with confidence and peace of mind.

## **Over 45 years of experience in safety marking.**

Since 1973, Orga has been delivering high quality and efficient marking solutions for offshore platforms, to contribute to the safety of people, assets and the environment.

***For optimum marking of your platform, call us:  
+31 (0)10 208 5555***



Design, production, quality control & commissioning.



100% regulatory compliance guaranteed worldwide.

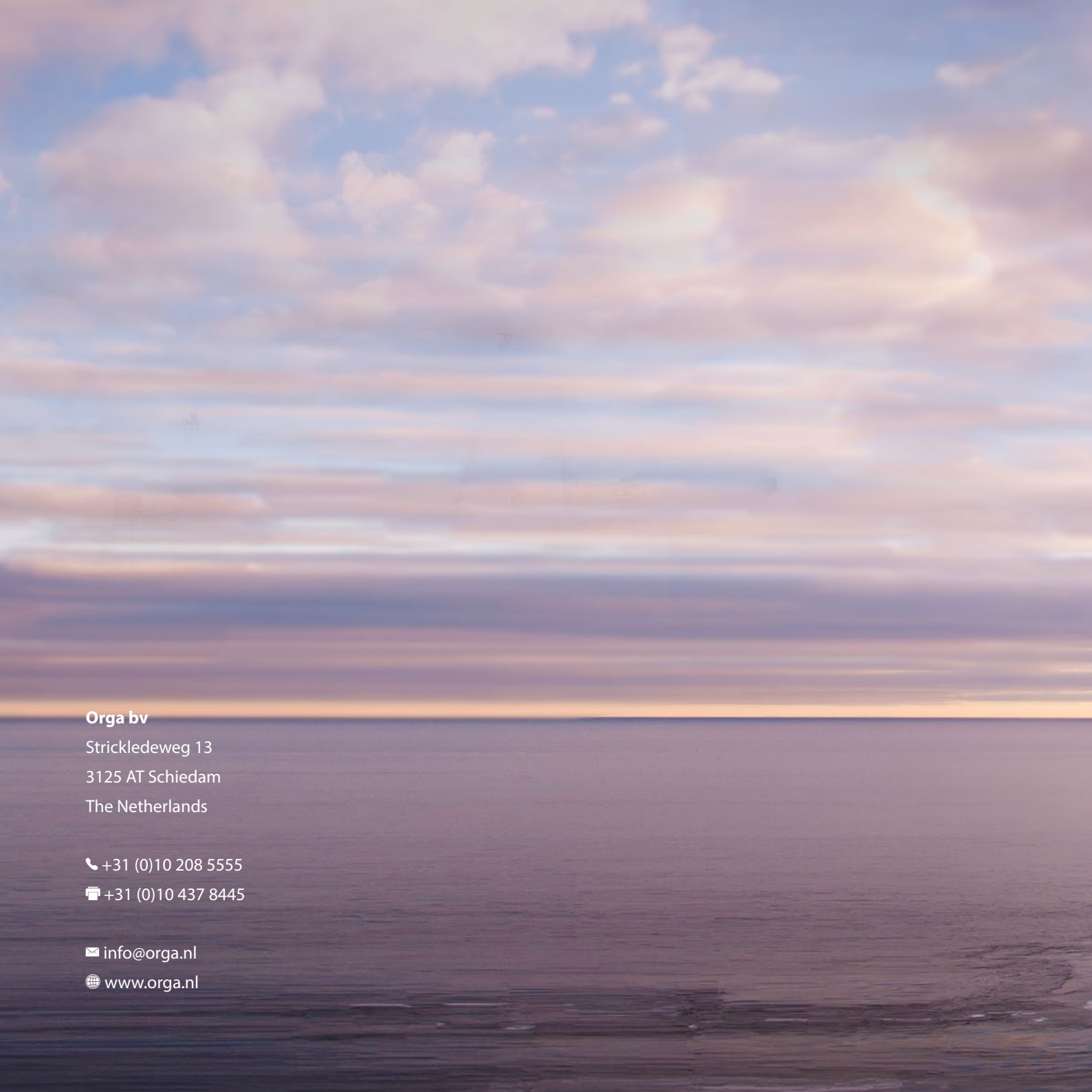


Locally based support teams & international partners.



The right solutions & services around the world.





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