

**orga**

The way ahead in  
**HMS lighting solutions**

YOUR PARTNER IN SAFE HELICOPTER LANDINGS



## HMS REPEATER LIGHT SYSTEM

# When safety matters most, you can trust in Orga.

With over 45 years of experience in the offshore industry, Orga delivers high quality and efficient solutions for marking assets and landing areas to ensure safe operations.

A Helideck Monitoring System (HMS) assists helicopter pilots in landing on moving helidecks as it indicates the motion status of the helideck. Orga has designed repeater lights to translate the HMS status into colour-coded visual information for the helicopter pilot.

The latest update of the CAP437 states that HMS repeater lights will be mandatory for all moving helidecks operating in European waters from 1 April 2021.

*“Orga delivers the complete lighting solution you need for your offshore helidecks to operate safely and reliably.”*



## HMS REPEATER LIGHT SYSTEM

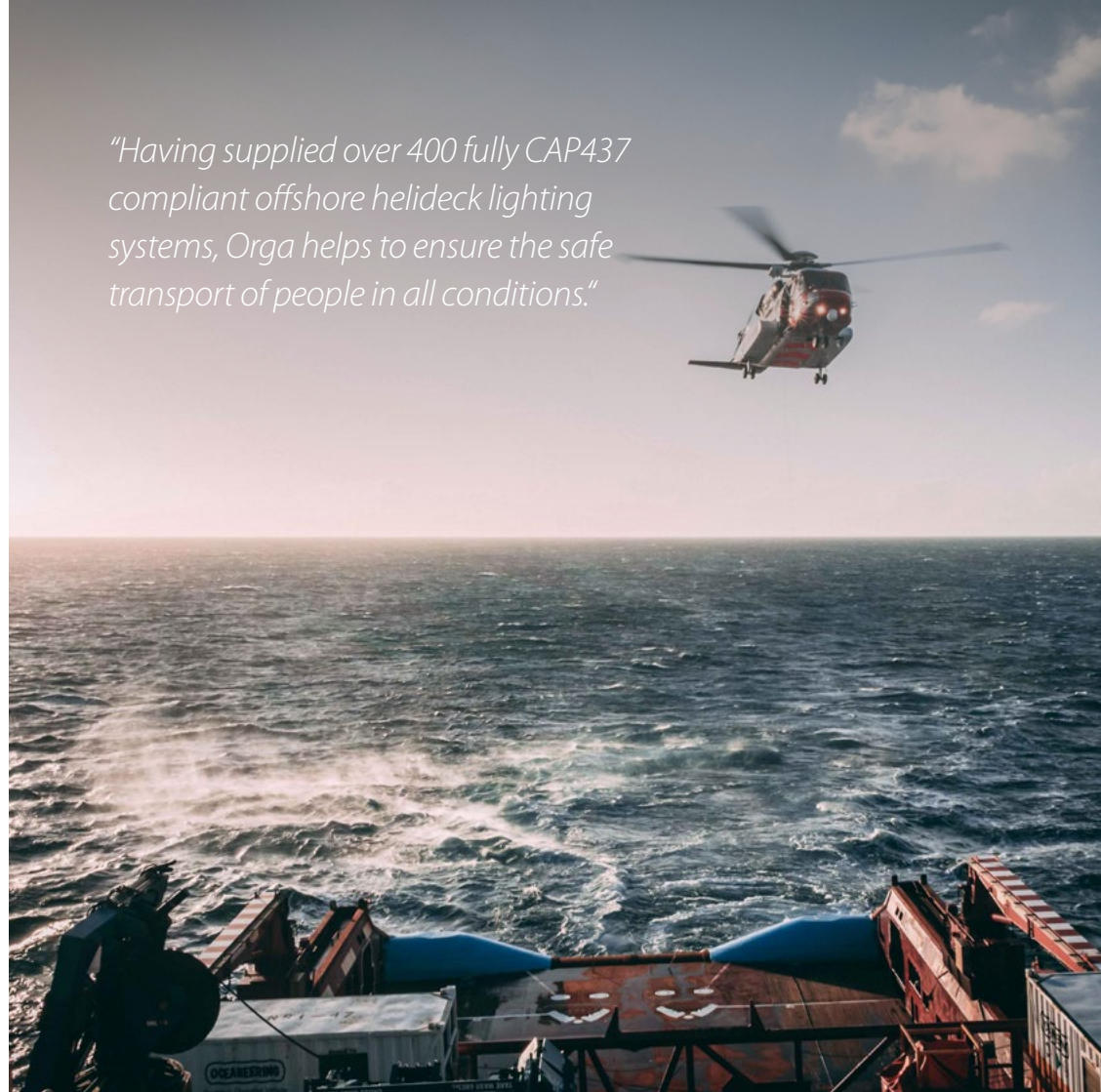
# More safety precautions, for safer helicopter traffic.

A Helideck Monitoring System (HMS) has two functions. Firstly, during helicopter approach it is used to analyse helideck motion to make sure that the helideck is steady and safe to land. Secondly, it monitors the wind speed and direction, air temperature and barometric pressure to ensure that the helicopter will be stable and safe when parked on the helideck.

The UK CAA, several other regulatory bodies and helicopter operators have recently completed trials on an updated HMS to improve the safety in rough weather conditions. The resulting system specifications have been published in the 'Standard Measuring Equipment for Helideck Monitoring System and Weather Data'. In addition to the main HMS this now calls for repeater lights to be installed on each corner of the helideck to give pilots a visual indication of the HMS status.

The UK CAA have incorporated these new requirements for the HMS, including the repeater lights, in the latest version of CAP437.

*"Having supplied over 400 fully CAP437 compliant offshore helideck lighting systems, Orga helps to ensure the safe transport of people in all conditions."*



## HMS REPEATER LIGHT SYSTEM

# HMS repeater light system, for optimal safety information.

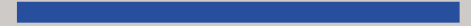
Orga's HMS repeater light system indicates the operational status of the helideck. The light communicates this to the pilots by showing one of three possible colours (Red, Amber and Blue) in flashing or steady burning/fixed mode; all combined in one fixture. Before the helicopter lands the repeater lights burn in steady mode, and after landing the lights switch to a flashing pattern.

The lights have an integrated photocell to automatically control the required dimming at twilight and at night. No separate photocell is required. They also include failure monitoring so that the control panel can show any errors that may occur.

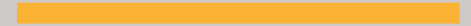
Orga's HMS repeater light system can integrate with all current Helideck Monitoring Systems and will mimic the operational status shown on the HMS display.

### BEFORE LANDING

1. BLUE STATUS, STEADY BURNING:  
'SAFE TO LAND'



2. AMBER STATUS, STEADY BURNING:  
'CONSIDER USING MODIFIED  
OPERATING PROCEDURES'

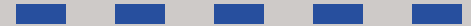


3. RED STATUS, STEADY BURNING:  
'DO NOT LAND'



### AFTER LANDING

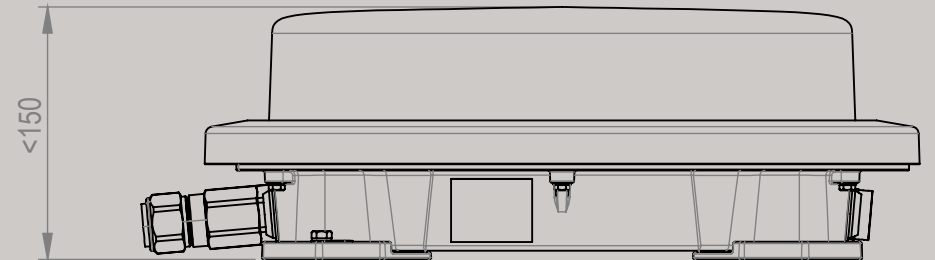
1. BLUE STATUS, SLOW FLASH:  
'RELATIVE WIND DIRECTION WITHIN  
LIMITS'



2. AMBER STATUS, FAST FLASH:  
'IMPENDING RELATIVE WIND LIMIT  
EXCEEDANCE'



3. RED STATUS, FAST FLASH:  
'RELATIVE WIND LIMIT EXCEEDED'



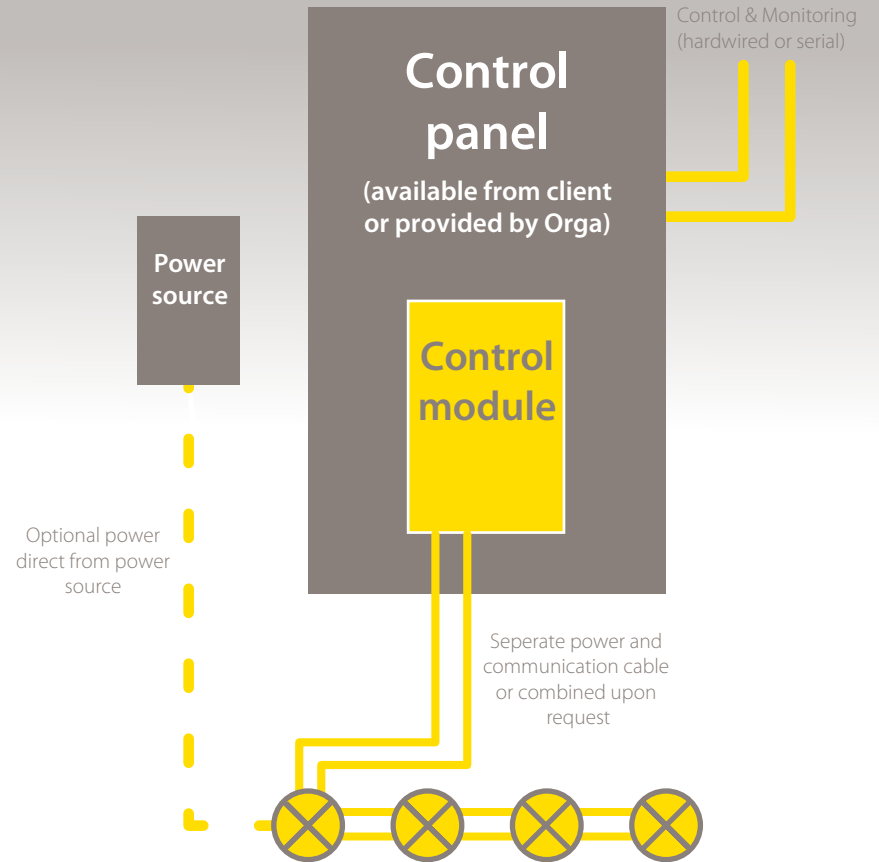
## HMS REPEATER LIGHT SYSTEM

# Efficient cabling, due to modularity.

Every Orga HMS repeater light has two cable entries for incoming cables, one for the communication cable and one for the power cable. Upon request, Orga can provide a combined cable. The cables between the repeater lights are looped to save installation time and costs.

Control and monitoring of the repeater lights can be performed from any HMS via hardwired connections, as described in the regulatory specification, or via Orga's preferred option of a serial connection using Modbus.

Depending on the location of the repeater lights and the control panel, we can provide a practical solution to power the HMS repeater lights directly from the main power source or the control panel.



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

Orga's reliable helideck lighting systems are essential for safety, ensuring that offshore assets are visible to pilots in all weather conditions. A strong collaboration with the UK CAA means all our helideck lighting products are fully CAP437 compliant. Contact us and we will be happy to assist you to visualise the motion status of your floating vessel with our HMS repeater light system.

## Over 45 years of experience in safety marking.

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

## For optimum marking of your helideck, call us :

+31 10 208 5555



TOTAL SERVICE  
DESIGN, PRODUCTION  
AND MAINTENANCE



HIGH RELIABILITY  
REMOTE MONITORING OPTIONS  
AUTONOMOUS POWER SUPPLY



100% REGULATORY  
COMPLIANCE  
PROVEN TRACK RECORD



LOW POWER CONSUMPTION  
REDUCED FOOTPRINT REQUIREMENT  
HIGH EFFICIENCY



LOW MAINTENANCE  
DELIVERS CONSIDERABLE  
OPERATIONAL SAVINGS

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