

## Enhanced safety and efficiency for offshore helicopter operations

How PT Timas Samudera Indonesia uses CAP 437-compliant Vaisala HelideckMonitoring System in their multipurpose offshore construction vessel



### The client:

PT Timas  
Samudera Indonesia

### Vaisala provided:

Vaisala Helideck  
Monitoring System  
(HMS)



PT Timas Samudera Indonesia is a leading Indonesian company engaged in the provision of engineering, procurement, and construction (EPC) services, particularly in the oil and gas sector. With a strong reputation for delivering high-quality projects, PT Timas excels in providing comprehensive solutions to meet the diverse needs of the energy industry.

The Timas 1201 is a cutting-edge DP2 heavy lift and pipelay vessel owned by PT Timas Samudera Indonesia, designed for both deep and shallow water projects. Featuring advanced pipelay capabilities, Dynamic Positioning (DP) technology, and conventional mooring systems, it can operate

in waters up to 3,000 meters deep, handling 1.5-meter concrete coated pipes.

### The challenge: Ensuring industry-compliant safety for offshore helicopter operations

PT Timas sought a compliant Helideck Monitoring System (HMS) for Timas 1201, aligning with the stringent safety and operational standards set by the UK Civil Aviation Authority (CAA) for offshore helicopter landing areas. With escalating demand for offshore industrial activities, particularly helicopter services, safeguarding takeoffs and landings is increasingly critical.

Helideck weather conditions are subject to abrupt changes, risking personnel safety and causing operational disruptions. PT Timas recognized the pressing need for

precise and timely weather data to elevate the safety and efficiency of their helicopter operations.

### The solution: Comprehensive and future-proof HMS technology

To address the challenge, PT Timas equipped the Timas 1201 with the Vaisala Helideck Monitoring System (HMS). The CAP 437-compliant system provides accurate and real-time weather and environmental data, helideck motion and vessel position.

The Vaisala HMS is a turnkey solution with complete power, sensor integration, data collection and storage. The comprehensive solution includes the Vaisala Automatic Weather station AWS430, Helideck Monitoring software and world-class Vaisala sensors. The system ensures precise wind speed and direction measurements with

the maintenance-free Vaisala WINDCAP® Ultrasonic Wind Sensor WMT700. Vaisala BAROCAP® Digital Barometer PTB330 provides barometric pressure with low hysteresis and long-term stability. Air temperature, dew point and relative humidity are provided by Vaisala HUMICAP® Humidity and Temperature Probe HMP155 with superior long-term stability and an optional warmed probe for humid conditions.

The dependable and efficient Vaisala PWD Present Weather Visibility Series Sensor provides horizontal visibility. Vaisala Ceilometer CL31 provides cloud height and coverage with advanced single lens optics for excellent performance. The solution also includes a helideck motion sensor, and is ready for future integration with repeater lights.

All sensor data is collected and presented through the easy-to-use Vaisala Helideck Monitoring Software, which keeps PT Timas informed of current weather conditions with a real-time data display and built-in security. Reporting tools and critical alarms help keep on-deck personnel safe and ensure optimal landings and takeoffs in the face of changing weather conditions.

### The benefits: Enhanced safety and efficiency for operational success

With the Vaisala HMS in place, helideck operators, pilots, and others onboard the Timas 1201 pipeline vessel can make informed decisions with real-time and accurate weather and environmental data. The system provides secure access to helideck status information for efficient communication and coordination.

Scalability features make it possible to easily accommodate future measurements such as wave height, ocean current, lightning data, compatibility with repeater lights and weather forecasting. The solution is designed to meet evolving needs and comply with international regulations.

In embracing Vaisala's Helideck Monitoring System, PT Timas enhances safety, efficiency, and compliance of their offshore helicopter operations, contributing to the success of the Timas 1201 and the broader offshore industry.

*“We at PT Timas Samudera Indonesia are committed to maintaining the highest standards of safety and efficiency in our offshore operations. The Vaisala Helideck Monitoring System has proven to be an invaluable asset, providing us with real-time and accurate weather data essential for ensuring secure helicopter takeoffs and landings on our Timas 1201 multipurpose construction vessel. The CAP 437-compliant system plays a crucial role in the success of the vessel and the broader offshore industry.”*

*William Wijaya  
Operation Manager,  
PT Timas Samudera Indonesia*

*Master the weather, master the sea*

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