Maritime Observation System AWS430 for naval defense

VAISALA

Product Spotlight

Unparalleled precision in harsh seas

Naval defense operations demand unwavering accuracy, even in the harshest conditions. Adverse weather and challenging environments are the norm, making reliable monitoring an indispensable tool for ensuring operational efficiency and the safety of naval personnel.

The Vaisala Maritime Observation System AWS430 is a cutting-edge automatic weather station meticulously designed for naval defense applications.

Key benefits

Rely on excellent performance no matter what the weather brings: AWS430 is designed for critical maritime applications.

Operate with confidence knowing that AWS430 is fully tested against maritime electromagnetic standards.

Flexible integration with multiple sensors, systems, and algorithms make it easy to adapt to your system.

Trust your data, thanks to high data availability with validated data quality.

Why Vaisala?

With over 85 years of experience in weather and environmental technology, Vaisala is the world's most trusted provider of weather observation systems for tactical operations.

Committed to excellence, we take every measure to ensure our systems are not only comprehensive in their observations but also meet the most stringent performance requirements in any situation.

We provide 24/7 global support, extensive project capabilities and thorough training throughout the entire lifespan of your system to help you make weather your ally when it matters most.

AWS430 stands as a beacon of reliability in naval environments. The system is designed to withstand the salt, moisture, extreme temperatures, vibrations and impact shocks that are a daily part of working at sea.

Equipped with third-party sensors tailored for oceanic observations, it delivers real-time data essential for navigating complex weather and oceanic conditions, ensuring the safety and efficiency of naval operations.

AWS430 provides multi-sensor data gathering capabilities — wind speed and direction, visibility, atmospheric pressure, air and water temperature, and humidity measurements — empowering naval defense stakeholders with unparalleled insights. Its advanced operator software offers real-time data display, reporting tools and warning alarms for better-informed decisions during critical weather situations.

Designed with a modular approach, AWS430 makes it easy to integrate additional sensors and quickly replace individual components, minimizing downtime and overall operating costs. Automated operation and self-diagnostics continuously collect sensor data, ensuring superior reliability through data quality and sensor status checks.

Naval defense applications

Effective coordination: Monitor air and sea conditions to coordinate supply vessels, helicopters, and other operational support traffic effectively.

Early warning and safety protocols: Gather detailed offshore condition information to inform early warning and safety protocols, safeguarding naval personnel and assets.

Helideck stability: Provide accurate wind and helideck stability data to ensure safe airborne operations, vital for naval aviation.

Decision-making support: Monitor weather conditions to ensure safe naval operations.

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