

Automatic Weather Station AWS810 for mining

Product Spotlight

In the rugged terrain of mining sites, where the earth is rich with minerals, the challenge isn't just about extracting resources — it's about doing so safely and efficiently.

The Vaisala Automatic Weather Station AWS810 is a pivotal asset for mining site managers aiming to boost operational efficiency and ensure safety. This advanced weather station delivers precise, actionable surface weather data, serving as a comprehensive solution for contemporary weather monitoring demands.



Key benefits

Expandable and flexible system compatible with both Vaisala and third-party sensors, tailored for diverse mining needs, such as weather reference sensors, hydrology sensors and professional-grade weather and air quality sensors.

Unmatched scalability and modularity with Data Management Unit DMU801, fitting various operational scales.

Features modern security architecture with secure boot and hardened hardware for enhanced protection.

Secure communication protocols safeguard data interfaces with Vaisala APIs, ensuring data integrity.

High operational efficiency through advanced remote diagnostics, software updates, and prolonged calibration intervals.

Supports comprehensive network management with sensor metadata, remote updates, and configuration via Vaisala Network Manager NM10.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala empowers businesses and community leaders to build resilience to climate change and extreme weather events. Our 85+ years of expertise is grounded in science, innovation and our unwavering commitment to constantly evolving.

We boldly demonstrate that a culture of resilience and a connection to nature can create new ways of smarter, resilient living. We are champions for smarter, safer and more sustainable urban communities.

Expandability, security and ease of use

The modular and adaptable design of AWS810 allows for the integration of an unparalleled number of sensors, offering extensive configuration and connectivity options. This adaptability ensures compatibility with both existing and emerging communication technologies, making it a future-proof investment.

AWS810 is powered by the Vaisala Data Management Unit DMU801, which streamlines the collection, management, and dissemination of weather sensor data. This unit is straightforward to configure, integrate and scale, making it easy to create high-quality networks equipped with modern security features.

Top-tier security measures guard against threats and unauthorized access, and it is engineered to endure the most severe conditions, guaranteeing durability and consistent performance. Deployment simplicity and remote maintenance capabilities enable efficient weather station management, offering exceptional value over its lifespan.

Key applications

AWS810 is an excellent backbone for getting hyperlocal weather observation data at and around the mining site. It provides a dependable and sturdy solution for monitoring weather conditions, crucial for maintaining the safety and efficiency of mining operations.

- Hyperlocal weather and environmental measurements across the mining site
- Severe weather resilience against extreme temperatures, high winds and visibility
- Tailings monitoring (thanks to the hydrology sensors)
- Dust monitoring

