

Data Management Unit DMU801

Product Spotlight

Providing trusted weather observations for a sustainable future

Superpower your weather intelligence with Vaisala Data Management Unit DMU801.

This powerful engine makes weather observation networks easy to configure, integrate and scale – enabling high-quality observation and future readiness with plug-and-play simplicity and data security.

It's also the heart of the Vaisala AWS810 Automatic Weather Station, the industry's only complete, standardized weather station with modular flexibility.



Key benefits

Take control of your weather observation network with easy configuration, integration and scalability.

Easily integrate reference-grade sensors and more with open architecture.

Get quick access to visualization through Vaisala observation system or your own system.

Stay ahead of technology and your evolving needs with future-proof design.

Maintain data security and integrity with industry-leading design and self-diagnostics.

Take advantage of comprehensive training, 24/7/365 support and a local presence around the globe.

Save time and energy with low power consumption and maintenance.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

DMU801 makes it easy to integrate reference-grade and supplemental sensors into efficient hybrid networks.

You have the freedom to decide how to build your observation network. DMU810 delivers a highly secure access point for creating fully-integrated weather stations, hydrological stations and other systems collecting environmental data. Use its open, secure and integrated architecture to send observation data for analysis and visualization to Vaisala observation system or your own system.

Future-proof design

Ideal for a range of purposes and configurations, DMU810 simplifies device configuration and management with its easy-to-use, graphical development tool and state-of-the-art web interface.

As technology and your needs change, DMU801 responds with its highly modular and expandable design, making it easy to integrate Vaisala and other sensors and interfaces. Its robust design ensures reliable operation over decades of service life.

Data security and integrity

Cybersecurity and data integrity are built in, with comprehensive system security from hardware design to operational software even at the user level. This unique approach fortifies data management and data sources, while frequent firmware updates keep connected devices secure.

DMU801 ensures uptime and proactive system management through self-diagnostics including supply voltages, internal temperature and sensor statuses, plus continuous network sensor monitoring and automated error notification.

Save time and energy with DMU801's low power consumption and maintenance while fulfilling national PEST (political, economic, social and technological) obligations, like environmental and sustainability requirements.

