

Vaisala Cirrus[®] Sounding System MW51

A generational leap in upper-air observations



Key benefits

Outstanding performance and reliability

The MW51's proprietary radio technology offers superior performance over a long lifecycle, as it's integrated design has no moving parts and minimized points of failure. The DigiCORA[®] Software continues to deliver state of the art upper-air measurements with the Vaisala Radiosonde RS41 and RS41 E-models, and further improves the intuitive day-to-day use.

Greater portability

The compact Sounding Processing Subsystem SPS511 significantly reduces the footprint of the sounding system, and the included wall-mounting kit offers further space optimization. The IP54 rating provides excellent protection against dust and water and makes the system suitable also for research campaigns.

Enhanced usability

The MW51 is easy to learn, use, and maintain. Configuration and management are made easy with an intuitive message configurator, system overview panel, and comprehensive diagnostics. System capabilities can easily be extended through optional software upgrades, without the need to update the hardware.

Secure and compliant system

MW51 conforms to the international radio and electrical requirements, ensuring safe and compliant operations. The system uses industry-leading security measures, protecting against data threats and unauthorized access. Regular security and software updates provide data integrity and peace of mind.

Upper-air soundings are critical to global weather observations, forecasts, and climate studies.

Vaisala radiosondes provide world-class data, and the Vaisala Cirrus Sounding System MW51 enables superior data processing and operational performance over a long lifecycle.

The system comes with modern, proprietary radio technology in a compact, portable and IP54-protected package — helping customers meet their most crucial objectives in atmospheric measurements. Best-in-class data security features provide protection against data threats and unauthorized access.

The MW51 is also the first product of its kind to provide readiness for simultaneous upper-air observations, using multiple radiosondes — providing unprecedented visibility into rapidly changing weather conditions and enhance forecasting accuracy.

Vaisala Cirrus Sounding System MW51 at a glance

Applications

- Synoptic upper-air soundings for meteorological agencies
- Research campaigns requiring increased portability
- Special applications such as ozone soundings, with flexibility to use additional connected sensors
- Test range observations

Key features

Outstanding radio performance with long telemetry range and excellent tolerance against interference

Thoughtful user experience integrating valuable features, such as an intuitive message configurator, system overview panel, and comprehensive diagnostics

One system for office and field campaigns with new compact IP54 rated Vaisala Cirrus Sounding Processing Subsystem SPS511

Industry-leading security features provide protection against security threats and unauthorized access

New unlocked opportunities for meteorological research breakthroughs with the new multisounding capability, which allows simultaneous upper air observations from multiple radiosondes

Why Vaisala?

The industry's most dependable meteorological technology

Vaisala Cirrus Sounding System MW51 is one of many Vaisala technologies reliably serving meteorological agencies and other stakeholders around the globe. Our solutions' precision and dependability under the harshest conditions have been proven time and time again.

Support and services you can count on

Look to Vaisala for dependable support, training, and project management so you can get the most from your equipment. With 85 years of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.



Trusted weather observations for a sustainable future

VAISALA

vaisala.com/meteorology



Scan the code for more information

Ref. B212434EN-A ©Vaisala 2021

This material is subject to copyright protection, with all copyrights retained by Vaisala and its individual partners. All rights reserved. Any logos and/or product names are trademarks of Vaisala or its individual partners. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of Vaisala is strictly prohibited. All specifications – technical included – are subject to change without notice.