



Apex Automated Weather Station

Precision without compromise

AEM's Apex Automated Weather Station delivers the precision, reliability, and durability essential for the toughest weather monitoring challenges. From localized climate research to large-scale weather networks, our systems provide high-quality data to power accurate forecasts, improve climate analysis, and ensure compatibility for global data sharing and collaboration. Designed to meet strict WMO and ICAO standards, the Apex Weather Station is ideal for critical meteorological and aviation applications.

Key benefits

Make better decisions with precise, WMO- and ICAO-compliant data that meets the strict tolerances required for critical applications.

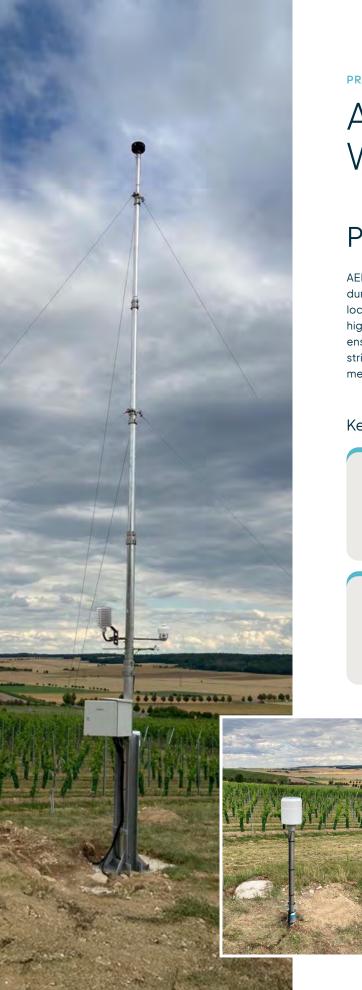
Seamlessly share data with regional and global partners, enabling collaboration for more coordinated monitoring and forecasting.

Depend on continuous, accurate data from a weather station designed for high performance and low upkeep, even in the toughest conditions.

Maximize your investment with a future-proof system that's scalable and compliant with evolving standards.

Who it's for

- National Meteorological and Hydrological Services (NMHS): Build or modernize weather networks with trusted, WMO-compliant weather stations.
- Regional mesonets and research institutions: Improve local weather forecasts and climate monitoring with high-quality data.
- Private sector (Energy, Aviation, Utilities): Optimize operations, ensure safety, and improve decision-making with the most precise weather data.

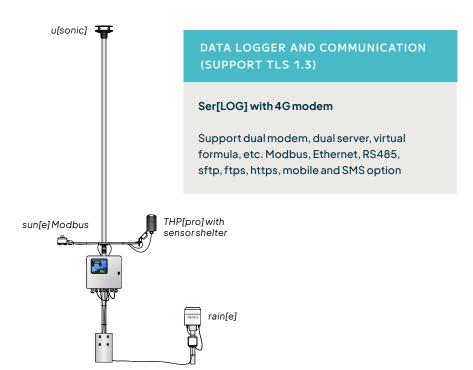


Apex Automated Weather Station components and specifications

SENSORS	SPECIFICATIONS
u[sonic]	 Wind direction: < 2° (> 1 m/s) RMSE Wind speed: ± 0.2 m/s or ± 2 % RMSE Measuring frequency up to 120Hz
rain[e]	 Typically ± 0.1 mm or 1% Load cell accuracy: 10mg equal to 0.0005mm
sun[e]	Secondary standard pyranometer

Accuracy air temperature: Typically ± 0.1 °C

- Accuracy relative humidity: Typically ± 1 % r. h.
- Accuracy barometric pressure:
 Typically ± 0.15 hPa; relatively ± 0.06 hPa
- 3 independent pressure sensors



AEM difference

- Complete weather monitoring solutions designed for today's demands and tomorrow's evolving needs – from network design and installation to software and maintenance.
- Trusted by government agencies, meteorological services, and communities worldwide, with thousands of systems deployed for severe weather, wildfire, and flood risk management.
- AEM Elements® 360 unifies and shares data in one powerful decision support application, simplifying collaboration, improving response and keeping communities safe.





READY TO POWER YOUR WEATHER DATA WITH PRECISION?

Contact us today at info@aem.eco to discover how the Apex Automated Weather Station can enhance your early warning systems, improve climate research, and support data-driven decisions



THP[pro]