



aviation weather

AtmosVueTM30

Visibility, Background Luminance,
and Present Weather Monitoring





Comprehensive Weather Monitoring in One Package

The AtmosVue™30 is designed to provide a comprehensive suite of meteorological measurements essential for aviation applications. By combining multiple advanced sensors, it delivers precise data on:



Visibility: Using the CS125 Present Weather and Visibility Sensor, which employs a forward-scatter system with a 42-degree scatter angle, the AtmosVue 30 accurately measures visibility ranges from 0 to 100 km (0 to 62 mi).



Present Weather Conditions: The system identifies various precipitation types and intensities, outputting up to three concurrent METAR codes and 57 SYNOP codes, aiding in comprehensive weather reporting.



Background Luminance: Incorporating the CS140 Background Luminance Sensor, it assesses ambient light levels, crucial for visibility measurements during low-light conditions.



Ambient Air and Wet-Bulb Temperatures: These measurements are vital for understanding atmospheric conditions, particularly in detecting freezing or frozen hydrometeors.



Relative Humidity: With the HygroVue™5 Digital Temperature and Relative Humidity Sensor, the system ensures accurate humidity readings, contributing to precise weather assessments.

Trusted, Supported, Future-Proofed

In the realm of aviation, accurate and real-time weather monitoring is paramount for ensuring safety and operational efficiency. Campbell Scientific addresses this critical need with the AtmosVue 30, a comprehensive solution that integrates visibility, background luminance, and present weather monitoring into a single, cohesive package.

Key Features and Benefits



Integrated Design: By consolidating multiple sensors into one system, the AtmosVue 30 reduces infrastructure complexity and costs.



Advanced Sensor Technology: Forward-scatter optical sensors enhance measurement accuracy and reliability while lowering operational costs.



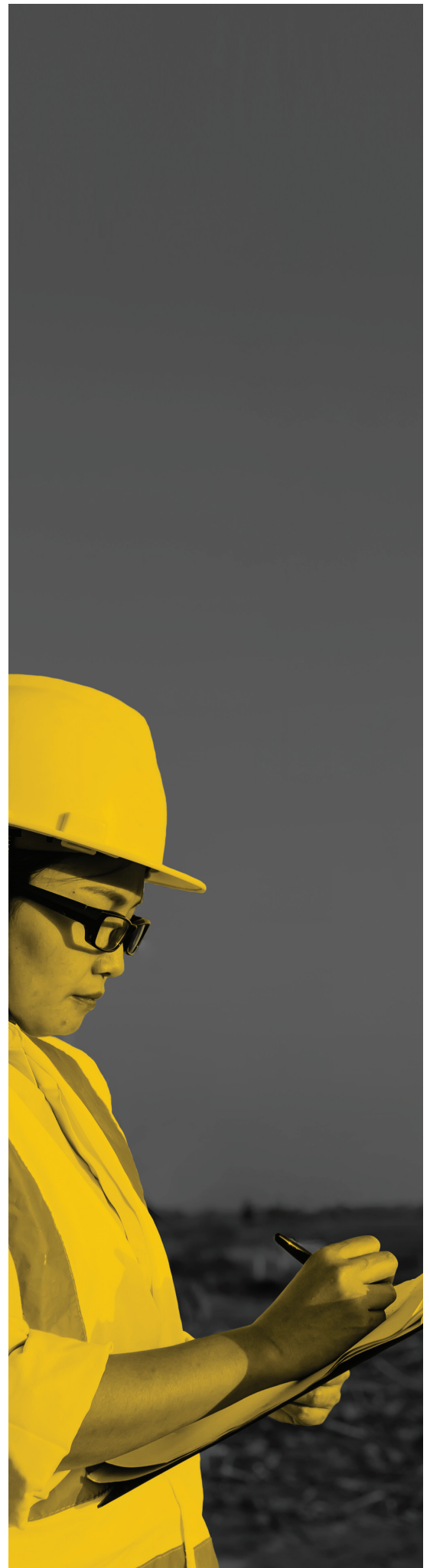
Future-Proof Architecture: Designed with scalability in mind, the system allows for easy integration of additional sensors or components without the need for complete system overhauls.



Enhanced Data Output: The ability to output multiple METAR and SYNOP codes simultaneously ensures comprehensive weather reporting capabilities.



Operational Efficiency: Features like an additional service port and optional heating for electronics housing in snowy environments minimize maintenance time and enhance system longevity.



Seamless Integration with CampbellAero™ Software

The AtmosVue 30 pairs effortlessly with our CampbellAero™ software, providing users with real-time, reliable, and accurate weather data. This integration enhances operational efficiency and safety, offering a robust solution for aviation weather monitoring needs.

Conclusion

The AtmosVue 30 stands out as a comprehensive, reliable, and cost-effective solution for aviation weather monitoring. Its blended approach, advanced sensor technology, and seamless software integration make it an invaluable tool for aviation professionals seeking accurate and real-time weather data.

For more detailed information or to request a quote, visit www.campbellsci.com/atmosvue30.

