

AIMMS-20

Airborne Wind Measurement for Spray Drift Control



It's in the Wind

Wind limits are stipulated by regulations and wind parameters are listed on product labels because wind conditions affect spray drift and deposit. Knowing your wind conditions can mean the difference between getting the job done right and a bad application.

Your Solution: The AIMMS-20

The **Aircraft Integrated Meteorological Measurement System (AIMMS-20)** gives you up-to-the-second knowledge of prevailing wind conditions during each and every application. Wind speed and direction values are acquired and transmitted to the existing on-board GPS navigation computer where a spray-drift model evaluates real-time navigation corrections dependent on the prevailing wind conditions at application height. All data is also logged in the AIMMS unit for post-flight download and analysis. An optional Personal Digital Assistant (PDA) running Wind Vector Software is available to provide real-time display of meteorological conditions to either the pilot or an observer in the cockpit, as well as program and maintain the instrumentation.

Advanced Technology

The AIMMS-20 consists of four components: an airflow probe module (AFM), a carrier-phase GPS measurement module (GMM), an inertial measurement module (IMM) and central processing module (CPM). The airflow module is mounted below the lower wing surface while the other three modules are located in the cockpit. The system combines carrier-phase, position and velocity information from the GMM with six-axis inertial rates from the IMM and aerodynamically corrected 3-D aircraft-relative flow vector data from the AFM. The CPM then assimilates this wealth of sensor data using a sophisticated digital signal processing routine that is updated 20 times per second.

Can You Fly Without It?

The AIMMS-20 gives you the confidence of knowing you have applied the pesticide in the right wind conditions. The data log offers post-flight verification so you can demonstrate compliance with regulations and to provide evidence of responsible conduct in the event such is ever questioned. The AIMMS-20 sets a new standard. In today's regulatory and business environment, can you afford to fly without it?



550 Aero Lane, Sanford, FL 32771-6342
800.367.0659 • 407.330.4800
FAX 866.330.9888 • MyADAPCO.com