



- ▶ Accurate measurement of temperature, humidity, three-dimensional winds and turbulence on-board the aircraft at spray release height.

Optimize Spray Deposition

Minimize Off-Target Drift

Document Meteorological Conditions to Prove Due Diligence during Application

- ▶ Third generation wind measurement technology.
- ▶ Smaller, lighter and lower cost than previous second generation AIMMS-20 system.

- ▶ AIMMS-30 system components include:

Air Data Probe (ADP)
Integrated Inertial / GPS Carrier Phase / Central Processing Module

- ▶ Data available in real-time via serial broadcast, which can be utilized by GPS navigation systems for use in real-time spray drift models, or stored to an integrated USB FLASH memory drive for post-flight analysis.

- ▶ Compatible with most major GPS navigation systems including:

ADAPCO Wingman GX
AGNAV Guia
TracMap
AgJunction SATLOC G4

- ▶ Stand-alone operation capability with optional display module running Aventech MetTrack firmware.

- ▶ Future MetTrack firmware versions to include spray drift modelling.

TECHNICAL SPECIFICATIONS

WIND SPEED ACCURACY:

Wind Components: 0.50 m/s (1.0 knot) @ 150 knots TAS
(North, East, Vertical)

TEMPERATURE:

Accuracy / Resolution: 0.30 Celsius / 0.01 Celsius

RELATIVE HUMIDITY:

Accuracy / Resolution: 2.0 %RH / 0.05 %RH

ELECTRICAL:

Operating Voltage: 9.0 to 36.0 VDC Input
Power: 4.2 Watts
Maximum Operating Current: 350 mA @ 12 VDC
150 mA @ 28 VDC
Digital Interfaces: Controller Area Network (CAN2A), 500 kps
RS-232 Serial Ports (default 19.2 / 38.4 kbps)

ENVIRONMENTAL:

Operating Temperature: -40 Celsius to 50 Celsius
Storage Temperature: -40 Celsius to 90 Celsius

PHYSICAL:

Dimensions:

Air Data Probe (ADP): 12.5" L X 0.75" dia. boom, 5.0" pylon
(31.8cm L X 1.9cm dia. boom, 12.7cm pylon)
Central Processing Module (CPM): 5.000" X 4.000" X 2.125"
(12.7cm X 10.2cm X 5.40cm)

Weights:

Air Data Probe (ADP): 1.39 lb 630 g
Central Processing Module (CPM): 1.00 lb 455 g



Optional 3.5" Sunlight Readable, Colour, Touch Screen Display Module

Display: 3.5" Transreflective Colour TFT LCD Display
320 X 240 resolution
64 K Colours
80 Nit LED Backlight for Night Viewing

Operating System: MetTrack Firmware v1.0

Dimensions (WxHxD): 5.125" X 4.000" X 1.125" (13.0cm X 10.2cm X 2.86cm)

Weight: 0.75 lb. 340 g

