



ARIM200 Air Data Probe (ADP) paired with AIMMS-20 Modules



ARIM200 Air Data Probe paired with VecTrax-10 Orientation Sensor

- The AIMMS (Aircraft Integrated Meteorological Measurement System) is a stand-alone, fully-integrated instrumentation system providing high-accuracy measurements of:

Temperature
Relative Humidity
Three-Dimensional Winds (North, East and Vertical)
and
Turbulence (Gust Probe)

- The embedded GPS / Inertial subsystem also provides measurement of:

Inertial Accelerations (X, Y, Z)
Inertial Angular Rates (P, Q, R)
GPS Time, Position and Velocity
And
Attitude (Roll, Pitch, Yaw [Heading])

- The data output is available in real-time via serial broadcast, or can be stored to an integrated USB FLASH memory drive for post-flight analysis and processing capable of providing a higher frequency solution.

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



TECHNICAL SPECIFICATIONS

PERFORMANCE:

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

Temperature (Accuracy / Resolution): 0.30 Celsius / 0.01 Celsius

Relative Humidity (Accuracy / Resolution): 2.0 %RH / 0.05 %RH

ELECTRICAL:

	AIMMS-20 Modules	VecTrax-10
Operating Voltage:	12.5 to 36.0 VDC	9.0 to 36.0 VDC
Maximum Power:	16 Watts	9.2 Watts
Operating Current: @ 12.5 VDC:	1280 mA	735 mA
@ 28 VDC:	575 mA	325 mA
Digital Interfaces:	Controller Area Network (CAN2A), 500 kps 2 X RS-232 Serial Ports	

ENVIRONMENTAL:

ARIM200 Operating Temperature: -70 Celsius to +70 Celsius

Module Operating Temperature: -40 Celsius to +50 Celsius

Module Storage Temperature: -45 Celsius to +90 Celsius

PHYSICAL:

Dimensions:

ARIM200 (ADP):	24.0" L X 1.50" dia. boom, 3.50" pylon (61.0cm L X 3.8cm dia. boom, 8.9cm pylon)
AIMMS-20 Modules (ea. X 3):	4.760" X 4.760" X 3.000" (12.1cm X 12.1cm X 10.9cm)
VecTrax-10:	5.866" X 4.094" X 2.314" (13.0cm X 10.2cm X 5.9cm)

Weights:

ARIM200 (ADP):	4.10 lb	1.90 kg
AIMMS-20 Modules:	4.60 lb	2.09 kg
VecTrax-10:	0.75 lb	0.34 kg



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. 0.34 kg