



TACMET II FOR UAV GROUND CONTROL SYSTEMS

FEATURES:

- **Sonimometer™ Wind Sensor**
- **Fast Response Relative Humidity Sensor**
- **Flux-Gate Compass**
- **Internal Barometric Pressure Sensor**
- **Digital Output**

Climatronics' TACMET II Weather Sensor, P/N 102304, is used to provide local weather conditions for the operation of unmanned aerial vehicles (UAVs) in locations where the existing infrastructure does not provide this data. The TACMET II incorporates Climatronics' unique folded-path, low-power sonic anemometer, the Sonimometer™, with a temperature sensor, a fast-response capacitive relative humidity sensor, and a flux-gate compass. An on-board microprocessor provides a digital output message: RS-232C is standard; RS-485 is available as an option. Special output formats are also available to interface with any GCS data input requirement.

Preserving much of the compact size and weight, low power, and reliability of its predecessor, the TACMET II is available with optional barometric pressure sensors, which have accuracies ranging from ± 1.50 hPa to ± 0.40 hPa. The TACMET II wind direction data will automatically be oriented to magnetic North with the internal flux gate compass.

The TACMET II weather sensor is designed for maximum durability, portability, and utility, making it uniquely applicable for rapid deployment and use by one person under adverse conditions. The sensor may be mounted on a tripod or vehicle mast, and an optional internal spread spectrum radio module allows for remote location of the weather sensor.

The TACMET II weather sensor is supported by a number of accessories, including: carrying cases; hand-held displays; compact, lightweight tripods; and, depot repair and calibration fixtures.

The TACMET II weather sensor has an aluminum housing and special filtering for EMI/RFI resistance.



The TACMET II has passed all relevant MIL-SPEC testing. Several paint colors are available.



Systems Used for Air Traffic Control	
Mobile Tactical Meteorological System	Canada Department of National Defence
Remote Landing Site Tower (RLST; AN/TSQ-216)	US Navy (Sierra Nevada)
Air Traffic Control Central (AN/TSQ-120B) (upgrade)	US Navy
Meteorology and Oceanography Integrated Data Display System - Tactical (MIDDS-T)	US Navy
Tactical Terminal Control System (TTCS, AN/TSQ-198) Meteorological Sensor Upgrade, and Mobile Tower System (MOTS, AN/MSQ-135)	US Army
Tethered Aerostat Radar System (TARS)	US Air Force (Lockheed Martin)
Surface Wind Sensor Replacement	US Air Force Reserve; Johnstown, PA
Tower Restoral Vehicle (TRV, AN/MSN-7) Weather Sensor Upgrade	US Air Force
RQ-7 Shadow 200 UAV Ground Control System MQ-1C Sky Warrior ER/MP	US Army



A rugged PDA and Climatronics' WeatherView software package can be used to display the data from the TACMET II through direct connection in this handheld mode, or can be linked to the TACMET II via compact spread spectrum radio modules built into both the TACMET II and the RPDA.



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