Applied Technologies, Inc.

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TriSonica™ Mini Basic Wind System

FEATURES

- **No moving parts**
- **Digital outputs**
- **Time proven design**
- **Replaces many other anemometers**
- **Low power**
- **Solid-state digital operation**
- **Small Size**
- **Light Weight**
- **Wind Speed and Wind Direction Output**
- **Three Axes Orthogonal Outputs (U, V, W)**
- **Sonic Temperature Output**

GENERAL

For those who require a compact, lightweight, low-velocity anemometer, for a small location or for use on a small drone, The TriSonica™ Mini Basic Wind System will do the job.

The TriSonica™ Mini Basic Wind System can also provide measurements of all three dimensions of air flow. The open path provides the least possible distortion of the wind field.

Four measurement paths provide a redundant measurement. The path with the most distortion is removed from the calculations to provide accurate wind measurements.

Data emulation allows for the direct connection to existing data loggers and systems without costly changes to associated electronics. Data output is factory set to user requirements and includes the emulation of many common types of wind sensors.

SPECIFICATIONS

Range	0-30 m/s for wind speed 0-359 degrees for wind direction -30 °C to +80°C for temperature
Resolution	0.1 m/s for wind speed 1.0 degrees for wind direction ±0.1 °C for temperature
Accuracy	±0.5 m/s for low range wind speed ±2% for high range wind speed ±1.0 degrees for wind direction ±2 °C (absolute) Temperature
Operating Temperature	-30 °C to +80°C
Digital Output	RS-232 standard
Data Output Rate	1 Hz, 2 Hz, 5 Hz, 10 Hz
Operating Frequency	60 kHz
Anemometer Power	12 – 24 VDC, 30mA at 12 V
Dimension	92.5mm x 92.5mm x 55mm
Weight	50 grams

OPTIONS

Custom Formats – Custom output formats are available for large quantity orders.

Color – The standard color is black, but other colors are available upon request.

Mounting – The base can be adapted to provide a mount to a variety of structures. Check with the factory for available options.

Option: Battery System – To provide the longest possible battery operation, given a full charge in the smallest package profile, the Li-Po (Lithium Polymer) battery is used, with its own special charger.

Option: Backup Battery – When a backup battery is required, it is expected that the unit will be operated on an external power source. This battery will be a Gel-Cell type.