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SPAS - Solid State Wind Sensor



FEATURES

- Dual component wind velocity or wind speed wind direction
- Fast response
- Extreme wind accuracy
- Microprocessor based
- No moving parts
- Solid-state digital operation
- Ease of mounting
- Rugged construction
- Low power
- Most research functions

GENERAL

The Model SPAS/2Y Solid State Wind Sensor is the latest member of Applied Technologies, Inc.'s Sonic Anemometer product line. This sensor offers high quality performance in an inexpensive package.

The SPAS/2Y Wind Sensor is a continuation of the Sonic Wind Sensors developed 25 years ago, and contains the same wind distortion algorithm and factoring that have been proven and accepted around the world.

Data from the instrument is digital for direct connection to data loggers, computers, and systems.

The instrument is designed to perform with the wind speed rates, accuracy, and functions of the research sonic, but with the wind direction accuracy of a commercial sonic. Optional heating permits continuous operation during heavy ice and snow.

SPECIFICATIONS

Range	0-50 m/s for wind speed 0-359° for wind direction -40 to +60°C Temperature
Resolution	0.01 m/s for wind speed 0.1° for wind direction 0.01°C for temperature
Accuracy	±0.03 m/s for wind speed ±3.0° for wind direction ±2.0°C for temperature
Operating Temperature	-40°C to +60°C
Digital Output	RS-232 standard RS-422/485 optional
Sampling Rate Data Output Rate	200 per second 10 per second (nominal) 20 per second (optional)
Rain/Snow	Can be heated
Operating Frequency	200 kHz
Power	9 – 18 VDC @ 100 ma