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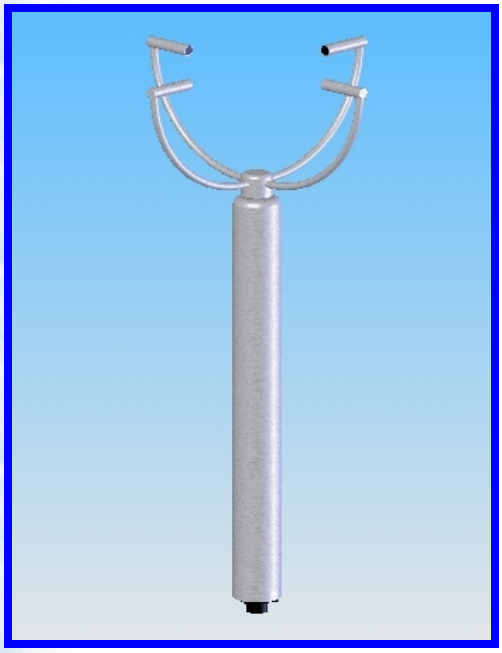
SPAS - Solid State Wind Sensor



FEATURES

- No moving parts
- Digital outputs
- Time proven design
- Sensor emulation
- Replaces many other anemometers
- Low power
- Solid-state digital operation

GENERAL

The Model SPAS/2Y Solid State Wind Sensor is an improved and more precise 2D member of Applied Technologies, Inc.'s Sonic Anemometer product line. This sensor offers high quality performance in a less expensive package.

The SPAS/2Y Wind Sensor is a continuation of the Sonic Wind Sensors developed 30 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 and accuracy of the research sonic, but with the wind directions accuracy of the commercial sonic. Optional heating permits continuous operation during heavy ice and snow.

SPECIFICATIONS

Range	0-65 m/s for wind speed 0-359° for wind direction -50 to +70ºC Temperature
Resolution	0.01 m/s for wind speed 0.001 m/s wind speed - optional 0.1° for wind direction 0.01ºC for temperature
Accuracy	±0.01 m/s for wind speed ±2.0° for wind direction ±1.2ºC for temperature (absolute) ±0.1ºC or ±0.05ºC for sonic temp
Operating Conditions:	
Temperature	-50°C to +70°C
Relative Humidity	0 – 100%
Digital Output	RS-232 standard RS-422/485 optional
Sampling Rate	200 per second
Data Output Rate	<1 Hz to 200 Hz - variable
Speed of Sound	Operator Optional
Baud Rate	4800 to 460,800 adjustable
Rain/Snow	Can be heated
Operating Frequency	150 kHz
Power	+12 Vdc @ <20 ma (9 – 32 VDC)
Dimensions	24.13 cm across arms 49.5 cm top to bottom
Weight	<1.0 kg

EXTRAS

- Mounting Fixture –
  Allows for mounting to the end of a horizontal pipe, 1” IPS
- Materials –
  Anodized aluminum and stainless steel
- Environment --
  Capable of withstanding hostile environmental conditions
- Connections –
  A single connector on the bottom provides input power and output signals