

50.5 Sonic Wind Sensor

The **50.5 Sonic Wind Sensor** is the latest field-proven sensor originating from the development work started with NOAA on sonic wind sensors over 25 years ago. This sensor design contains the same wind distortion algorithm and factoring that has been proven and accepted in applications around the world.

No other sensor technology has the history of time proven field performance comparable to the 50.5 Sonic Wind Sensor.

Features

- No moving parts
- Digital and analog outputs
- 16-point wind tunnel calibration with each sensor
- Optional heating unit allows continuous operation in ice and snow
- Low maintenance



50.5 Solid State Wind Sensor

Specifications

Wind Speed

Range:	0-50 m/sec standard
Accuracy:	± 0.2 m/sec < 11.3 m/sec or ± 2 % > 11.3 m/sec
Resolution:	0.1 m/sec

Wind Direction

Range:	0° - 360°
Accuracy:	± 3 °
Resolution:	1°

Operation

Sampling Rate:	5 per second
Data Output Rate:	1 per second
Sonic Frequency:	200 kHz

Output Signal

Wind Speed Voltage:	0 to 1 ,2.5 or 5 VDC (specified at time of purchase)
Wind Direction Voltage:	0 to 1 ,2.5 or 5 VDC (specified at time of purchase)
RS-232:	1200 to 19.2K Baud (9600 Baud Standard)
Optional Digital Outputs:	SDI-12, RS-422, RS-485 (specified at time of purchase)

Continued



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Specifications

Power Requirement

Sensor: 9-18 VDC
10 mA at 12 VDC -average power
.75 amp pulse for 2 msec. -peak power (once/sec)

External Heater: 15 Volts DC @ 50 watts

Environmental

Operating Temperature: -40°C to +55°C (-40°F to +131°F) no ice
Extended Temperature Range: -50°C to +55°C (-58°F to +131°F) with external heater

Physical Characteristics

Weight: 5.5 lbs (2.5 kg)
Finish: i~6~ aluminum & stainless steel
Ingress Protection: IP65

Cable & Mounting

PN 9574 Cable Assembly; specify length in feet or meters
Mounting: PN 3188 Mounting & Orientation Fixture

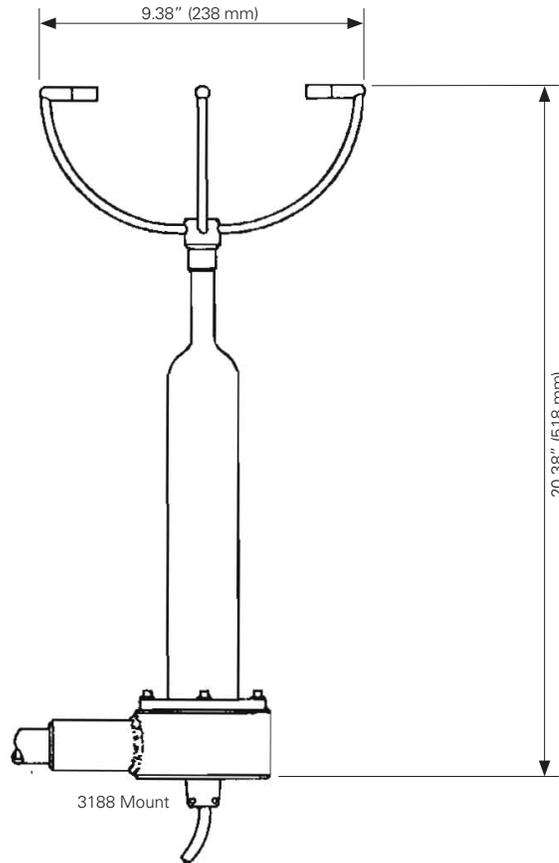
Options

PN 50.5H Wind Sensor with External Heater & Control Box
PN 50.5PS External Heater Power Source (100 to 240 VAC 50/60 Hz)-15VDC @ 4 amps

Heater option must be specified at time of purchase.

Specifications are subject to change at any time.

Technical Drawing



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