ATMOS-22 Sonic Anemometer



When it comes to measuring wind, trade-offs have always been involved. Cup anemometers cannot measure both wind speed and wind direction (or low wind speeds, for that matter). They are also prone to malfunction since they all contain moving parts. Meanwhile, sonic anemometers have always been too costly. Until now.

The best of both worlds

The wind-tunnel-tested ATMOS 22 ultrasonic anemometer delivers the best of both worlds. It's accurate at any wind speed because there aren't any moving parts that cause friction or fail. And it's inexpensive, especially when you consider the low-energy design. Accuracy. Dependability. Affordability. You get all three with the ATMOS 22.

Accuracy that will blow you away

If you want accurate wind profiling, a sonic anemometer is the obvious choice. Designed with canopies in mind, the ATMOS 22 registers even the lowest thresholds of wind speed (0 m/s) with the added ability to detect fine-scale variations within 0.01 m/s resolution. We even installed spikes on flat surfaces to dissipate raindrop energy so transducer signals don't get obstructed.

Contrast the ATMOS 22's advanced technology to a cup or propeller wind anemometer. Neither will spin if wind speed is too low. Cup anemometers also do not indicate wind direction, unless you combine them with a wind vane. And both are prone to additional inaccuracies due to worn out moving parts. But with the ATMOS 22, you can accurately measure wind speed anywhere, every time, with total confidence.

Wind measurement is now a breeze

The ATMOS 22 was designed without moving parts, meaning there's never any mechanical wear. No oiling or replacing bearings. And no recalibration required. Just reliability you can continue to count on.

Not only does its ultra-low power consumption make it ideal for long-term, remote installations, but its compact size makes it small enough to deploy inside canopies. And instead of having to make field visits to collect data and check sensor and

system functions, you can monitor information in real-time and download data using any internet-connected device by connecting the ATMOS 22 to an EM60G data logger. Which not only saves you time, but provides worry-free operation and peace of mind.

The ATMOS 22 is not only far more affordable than other sonic anemometers but also uses 100 to 1,000 times less power.

Horizontal wind speed	Range: 0–30 m/s Resolution: 0.01 m/s Accuracy: the greater of 0.3 m/s or 3% of measurement
Wind gust	Range: 0–30 m/s Resolution: 0.01 m/s Accuracy: the greater of 0.3 m/s or 3% of measurement
Wind direction	Range: 0°–359° Resolution: 1° Accuracy: ±5°
Compass heading	Range: 0°–359° Resolution: 1° Accuracy: NA
Dimensions	10 cm diameter × 16 cm height
Cable length	5 m (custom lengths are available for an additional cost)
Supply voltage (VCC) to GND	Minimum 3.6 VDC Maximum 15.0 VDC
Current drain (during measurement)	Minimum 0.050 mA Typical 0.125 mA Maximum 0.500 mA
Measurement duration	Typical 110 ms Maximum 3,000 ms
Compliance	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)
Warranty	One year

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