



## ATMOS-22 ULTRASONIC WIND SPEED & DIRECTION SENSOR



### Product Description

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.



# ATMOS-22

## Technical Specifications

HORIZONTAL WIND SPEED / 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	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)