



METER

ATMOS-22 ULTRASONIC ANEMOMETER



Accuracy that will blow you away

If you want accurate wind profiling, a sonic anemometer is the obvious choice. Designed with canopies in mind, ATMOS-22 sonic anemometer 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.

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 don't 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 ATMOS-22, you can accurately measure wind speed anywhere, every time, with total confidence.

A low-cost sonic anemometer. Yes, you heard right.

ATMOS-22 is not only far more affordable than other sonic anemometers but also uses 100 to 1,000 times less power. Running on less than 100 uA, ATMOS-22 frees you to make wind measurements in multiple locations without having to constantly change batteries.

Wind measurement is now a breeze

ATMOS-22 sonic anemometer 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 ATMOS-22 to a ZL6 data logger. Which not only saves you time, but provides worry-free operation and peace of mind.

Sounds like a smarter way to measure wind. Because it is

The precise accuracy, yet low-maintenance of sonic measurement. The low-cost of a regular anemometer, plus even lower power consumption. ATMOS-22 ultrasonic anemometer was engineered to offer a wide range of advantages across the widest range of wind speed, all for an affordable price.



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ

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Features

- Wind speed and direction
- Easy installation
- No moving parts
- All data transmitted over a single wire
- Digital SDI-12 communication
- Connect to ZL6 for data capture and management

Specifications

MEASUREMENT SPECIFICATIONS

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°
Tilt	Range: -90° to 90° Resolution: 0.1° Accuracy : ±1°

COMMUNICATION SPECIFICATIONS

Output	SDI-12 communication
Data logger compatibility	METER dataloggers (ZL6, EM50/EM60) or any data acquisition systems capable of 3.6-15.0 VDC excitation and SDI-12 communication.

PHYSICAL SPECIFICATIONS

Dimensions	Diameter: 10 cm Height: 16 cm
Cable length	5 m (standard) 75 m (maximum custom cable length)
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
Operating temperature range	Minimum: -50°C Maximum: 60°C

ELECTRICAL AND TIMING CHARACTERISTICS

Supply voltage (VCC to GND)	Minimum: 3.6 VDC continuous Maximum: 15 VDC continuous
Measurement duration	Typical: 110 ms Maximum: 3000 ms

COMPLIANCE (CE Mark)	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010
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