

DS-2

Sonic Anemometer

Measure Wind Speed and Direction

The DS-2 is a sonic anemometer that measures horizontal wind speed and direction. The DS-2 is a rugged, research grade sensor.

Applications

- Characterize microclimate
- Modeling PET and ET
- Surface-atmosphere energy exchange
- Transport of mass and energy (particulate matter, gases, heat)
- Monitoring fertilizer/pesticide/herbicide applications
- Fire weather assessment, fire behavior forecasting
- Mobile sampling platforms



Accurate at Low Wind Speeds

The DS-2 has a lower measurement threshold of 0 m/s. Because of friction, cup anemometers have a lower measurement threshold of 0.5 m/s.

Never Needs Calibration

Sonic anemometers use ultrasonic sound waves to measure wind velocity. Because the measurement is founded on first principles, the sensor doesn't need calibration.

Requires No Maintenance

No moving parts means you don't have to oil or replace anything.

Uses Very Little Power

Built to run for 6 months or more on the 5 AA batteries in your Em50 series data logger (also compatible with other data loggers).

Affordable

High accuracy and low per-sensor cost make acquiring vertical wind profiles and greater spatial coverage possible.

Specifications

Wind Speed

Range: 0 to 30 m/s. **Resolution:** 0.01 m/s.
Accuracy: 0.30 m/s or 3%, whichever is larger.

Wind Direction

Range: 0 to 359 degrees. **Resolution:** 1 degree.
Accuracy: ± 3 degrees.

Diameter: 100 mm. **Sensor body height (w/mount):** 155 mm.
Communication: SDI-12. **Maximum sampling speed:** 1 Hz. **Connector types:** 3.5 mm (stereo) plug or stripped & tinned lead wires. **Data logger compatibility:** (not exclusive) Decagon Em50 series, Campbell Scientific.



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