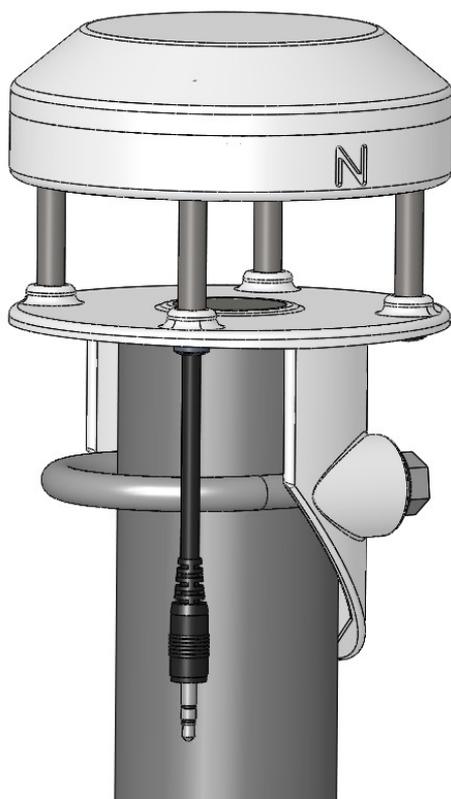


DS-2

Sonic Anemometer



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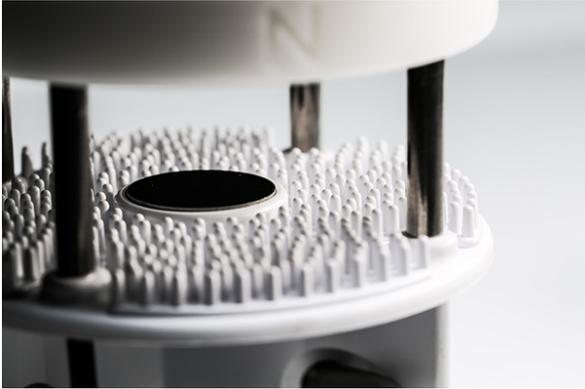
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About DS-2 Sonic Anemometer

Decagon designed the DS-2 Sonic Anemometer to measure wind speed, direction, and even wind gusts. It is a two dimensional ultrasonic anemometer with no moving parts that provides specified accuracy for long-term installations. It outputs SDI-12, and is compatible with Decagon's Em50, Em50R, Em50G, and other loggers like those from Campbell Scientific.



Specifications

Wind Speed Range: 0 to 30 m/s

Wind Speed Resolution: 0.01 m/s

Wind Speed Accuracy: 0.30 m/s or $< 3\%$, whichever is larger

Wind Direction Range: 0 to 359 degrees

Wind Direction Resolution: 1 degree

Wind Direction Accuracy: ± 3 degrees

Operating Temperature Range: -40 to 50 °C

Excitation Voltage: 3.6 to 15 VDC

Current: 0.03 ma quiescent, 0.5 ma; sampling, < 0.05 ma typical

Communication: SDI-12

Diameter: 100 mm

Height (wind sensor): 75 mm

Height (total w/ mount): 155 mm

Maximum sampling speed¹: 1 Hz

Output¹: average speed, gust speed, direction, or vector

Connector types: 3.5 mm (stereo) plug or stripped & tinned lead wires (Pigtail)

Cable Length: Standard is 5 m, though we have custom cable lengths available upon request

¹If sampling rate is greater than 0.1 Hz, the anemometer reports the speed and direction at the time of sampling. If sampled less frequently, the anemometer samples every 10 seconds, averages the vector components of the wind, and keeps the maximum gust. When the logger samples, the anemometer reports the average wind speed, direction, and the maximum gust speed.