



Gill Windsonic (SDI-UWS-GILL)

Ultrasonic wind speed and direction sensors offer an alternative to conventional cup and vane or propeller type wind sensors. They are robust and lightweight with no moving parts, and use an SDI-12 interface, therefore offering several advantages over analog sensors.

- Considerably more robust than mechanical sensors
- Simple and light to deploy
- No moving parts—unaffected by perching birds
- Suitable for land or marine applications

An ultrasonic anemometer measures the time taken for an ultrasonic pulse to travel from one transducer to the opposite transducer and then compares it with the time taken for another pulse to travel in the opposite direction. Likewise, differences are measured between other pairs of transducers.

Because sound travels more quickly *with* wind direction, and more slowly *against* wind direction, both wind speed and direction are thus calculated.



Technical Specifications

Wind Speed:

Range:	0-134 mph (0-216 km/h)
Accuracy:	±2% @ 12 m/s
Resolution:	0.01 m/s (0.022 mph)
Threshold:	0.01 m/s (0.022 mph)

Wind Direction:

Range:	0-359°
Accuracy:	±3° @ 12 m/s
Threshold:	1 degree

Response time:

0.25 seconds

Interface:

SDI-12

Operating temperature range:

-35°C to +70°C (-31°F to +158°F)

Weight:

0.5kg (1.1lbs)

Cable: 20 ft. stainless steel-clad armoured

Manufacturer: [Gill Instruments](#)