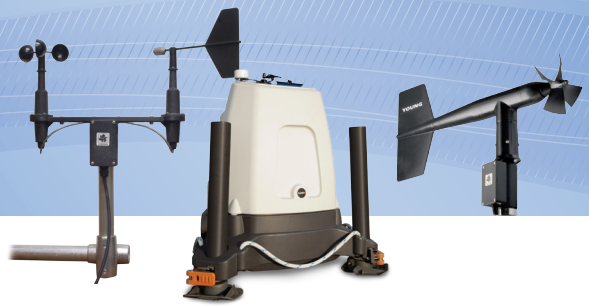
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

WIND SPEED AND WIND DIRECTION

Wind vanes and cup, propeller, sonic anemometers, or Lidar



Rugged, Reliable, and Ready for any Application

RELIABLE SINCE 1974 MONITORING

Campbell Scientific offers a selection of quality wind sensors. Our wind sensors are used in research, air quality, and general purpose meteorological applications. Most of the wind sensors available directly from Campbell Scientific are modified slightly from the manufacturer's stock items for use with our dataloggers.

MAJOR SPECIFICATIONS

		Sensor	Range	Accuracy
03002 | Wind Sentry Set Reliable, competitively-priced; good all purpose wind set		3-cup anemometer and vane	Wind Speed 0 to 50 m/s (112 mph) Wind Direction 0 to 360° (mechanical) 0 to 352°, 8° open (electrical)	Wind Speed ±0.5 m/s (1.1 mph) Wind Direction ±5°
034B | Wind Set Reliable, accurate wind measurements		3-cup anemometer and vane	Wind Speed 0 to 50 m/s (110 mph) Wind Direction 0 to 360° (mechanical) 0 to 356°, 4° open (electrical)	Wind Speed < 10.1 m/s (22.7 mph): ±0.11 m/s (0.25 mph) >10.1 m/s (22.7 mph): ±1.1% of true Wind Direction ±4°
05103 | Wind Monitor Light-weight, sturdy instrument that accurately measures wind speed and direction in harsh environments		helicoid-shaped, 4-blade propeller and fuselage-shaped sensor body	Wind Speed 0 to 100 m/s (0 to 224 mph) Wind Direction 0 to 360°(mechanical) 0 to 355°, 5° open (electrical)	Wind Speed ±0.3 m/s (0.6 mph) or 1% of reading Wind Direction ±3°
05103-45 | Alpine Wind Monitor Rugged instrument designed to discourage ice-buildup and to minimize vibration at high wind speeds		helicoid-shaped, 4-blade propeller and fuselage-shaped sensor body	Wind Speed 0 to 100 m/s (0 to 224 mph) Wind Direction 0 to 360° (mechanical) 0 to 355°, 5° open (electrical)	Wind Speed ±0.3 m/s (0.6 mph) or 1% of reading Wind Direction ±5°
05106 | Marine Wind Monitor Light-weight, sturdy instrument designed for offshore and marine applications		helicoid-shaped, 4-blade propeller and fuselage-shaped sensor body	Wind Speed 0 to 100 m/s (0 to 224 mph) Wind Direction 0 to 360° (mechanical) 0 to 355°, 5° open (electrical)	Wind Speed ±0.3 m/s (0.6 mph) or 1% of reading Wind Direction ±3°

		Sensor	Range	Accuracy
05305 | Wind Monitor-AQ High performance wind sensor designed specifically for air quality measurements. It meets or exceeds the requirements of various regulatory agencies		helicoid-shaped, 4-blade propeller and fuselage-shaped sensor body	Wind Speed 0 to 50 m/s (0 to 112 mph) Wind Direction 0 to 360° (mechanical) 0 to 355°, 5° open (electrical)	Wind Speed ±0.2 m/s (0.4 mph) or 1% of reading Wind Direction ±3°
WINDSONIC | 2-D Sonic Wind Sensors Low-maintenance, ultrasonic anemometer comes in RS-232 and SDI-12 versions.		2-dimensional ultrasonic anemometer	Wind Speed 0 to 60 m/s (0 to 134 mph) Wind Direction 0° to 360°	Wind Speed ±2% of reading Wind Direction ±3°
ZEPHIR300 | Remote Sensing Wind Measurement Lidar Provides remote wind measurements across ten user-defined heights from 10 m to 300 m.		continuous-wave (CW) lidar	<1 m/s to 70 m/s (0 to 157 mph)	Wind Speed < 0.5% (as measured against a calibrated moving target) Wind Direction <5°