



S-WCF-M003 Sensor

Davis Wind Speed and Direction Smart Sensor

Davis® Wind Speed/Direction Smart Sensors are compatible with all HOBO weather station loggers, HOBOWare, and HOBOLink. They offer the same ease-of-use as existing Onset Smart Sensors, providing cost-effective HOBO weather stations for projects on a tight budget. The sensors feature a plug-in modular connector for easy installation, and all configuration parameters are stored in the sensor and automatically communicated to the logger, eliminating the need for programming or extensive setup.

Designed to meet World Meteorological Organization (WMO) guidelines

Also available in a wireless model for use with the HOBOnet Field Monitoring System.

Supported Measurements:

Wind



S-WCF-M003 Sensor Specifications

	Wind Speed/Gust	Wind Direction
Measurement Range	0 to 76 m/sec (0 to 170 mph)	0 to 355 degrees
Accuracy	±1.1 m/sec (±2 mph) or ±5% of reading, whichever is greater	±7 degrees
Resolution	0.5 m/sec (1.1 mph)	1 degrees (0 to 355 degrees)
Starting Threshold	≤1 m/sec (2.2 mph)	1 m/sec (2.2 mph)
Measurement Definition	<p>Cup revolutions are accumulated every three seconds for the duration of the logging interval</p> <p>Wind speed: Average speed for the entire logging interval</p> <p>Gust speed: The highest three-second wind recorded during the logging interval</p> <p>See <i>Measurement Operation</i>.</p>	<p>Unit vector averaging used; vector components for each wind measurement are calculated every three seconds for duration of logging interval (see <i>Measurement Operation</i>)</p>
Operating Temperature Range	-40°C to 65°C (-40°F to 149°F)	
Environmental Rating	Weatherproof	
Housing	Polycarbonate wind cups	UV-resistant ABS wind vane and black-anodized aluminum anemometer arm
Bearing Type	Sealed stainless steel	
Turning Radius	108 mm (4.25 in.)	Approximately 135 mm (5.25 in.)
Dimensions	470 x 191 x 121 mm (18.5 x 7.5 x 4.75 in.)	
Weight	1.332 kg (2 lb, 15 oz)	
Bits per Sample	8 for each channel, 24 total	
Number of Data Channels*	3	
Measurement Averaging Option	Automatic averaging (see <i>Measurement Operation</i>)	
Cable Length Available	3 m (9.8 ft)	
Length of Smart Sensor Network Cable*	0.5 m (1.6 ft)	
	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).	