



HOBO Ultrasonic Wind Speed & Direction Smart Sensor

Product Images



Short Description

The HOBOnet Wireless Wind Speed and Direction Sensor - preconfigured and ready to deploy. Data is accessed through HOBOLink web-based software.

Description

The Ultrasonic Wind Speed and Direction Smart Sensor is compact and rugged with no moving parts.

Because this sensor is ultrasonic it is able to measure very low wind speeds, down to 0.4 m/s (compared to 1.0 m/s for HOBOnet mechanical sensors). As with all Onset smart sensors, this sensor is plug-and-play with


HOBO stations (RX3000, RX2100 , RX2100-WL, H21-USB, H22-001 & U30-NRC). Because it is automatically recognized by HOBO stations, there is no need for programming, resulting in fast and easy deployment. The sensor is powered by its own built-in solar panel.

Key Features

- Compact and rugged with no moving parts
- Plug-and-play with HOBO stations
- No starting threshold – suitable for low wind speeds
- No wind direction dead band – accurate wind data in all directions
- Powered by its own built-in solar panel
- Affordably priced

For full specifications for this product, please see the User Manual under the Resources tab.

Additional Information

Country of Manufacture	France		
Brand	Onset HOBO		
Measurements	Wind Direction, Wind Speed		
Typical applications	Environmental (Outdoor), Field Research, Weather Monitoring		
Explanation	To see the full specifications for this product, please see the manual under the Resources tab.		
		Wind Speed/Gust	Wind Direction
	Measurement Range	0 to 41.16 m/s (0 to 92.07 mph)	0 to 359 degrees
	Accuracy	±0.8 m/s (1.79 mph) or ±4% of reading, whichever is greater	0.2 to 3 m/s (0.44–6.7 mph): ±4 degrees >3 m/s (6.7 mph): ±2 degrees
	Resolution	0.4 m/s (0.89 mph)	1 degrees (0 to 359 degrees)
	Measurement Definition	Wind speed readings are taken every three seconds for the duration of the logging interval Wind speed: Average speed for the entire logging interval Gust speed: The highest three-second wind recorded during the logging interval See <i>Measurement Operation</i> .	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>)
	Operating Temperature Range Without Icing	-15°C to 55°C (5°F to 131°F)	
	Environmental Rating	Weatherproof	
	Housing	Polyacetal	
	Dimensions	Sensor length: 380 mm (14.96 inches) Sensor head diameter: 60 mm (2.36 inches) Sensor rod diameter: 16 mm (0.63 inches)	
	Weight	200 g (7 oz)	
	Power Supply	Photovoltaic panel, LIFEP04 3.2 V -600 mAh battery	
	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).	
	* A single HOBO station can accommodate 15 data channels and up to 100 m (328 ft) of smart sensor cable (the digital communications portion of the sensor cables).		
Ideal For	Professional, Agronomy		
Power	Battery only		