



S-WDA-M003 Sensor

Wind Direction Smart Sensor

The Wind Direction Smart Sensor is a research-grade plug-and-play sensor for measuring and logging wind data. It provides average wind direction for the measurement interval. This highly-durable wind vane has a drip overhang for anti-icing. Its shielded stainless-steel ball bearings and static-dissipating housing provide a long sensor life. The sensor calculates a unit vector average of the wind direction, providing data directly in degrees.

NOTE: an M-CAA Full Cross Arm or M-CAB Half Cross Arm is required for mounting.



Supported Measurements:

Wind

Key Advantages:

- Research-grade plug-and-play sensor for measuring and logging wind direction data
- Highly-durable wind vane has a drip overhang for anti-icing
- Shielded stainless-steel ball bearings

S-WDA-M003 Sensor Specifications

Specifications	Wind Direction
Measurement Range	0 to 355 degrees, 5 degree dead band
Maximum Wind Speed Survival	67 m/sec (150 mph)
Accuracy	± 5 degrees
Resolution	1.4 degrees
Starting Threshold	1.0 m/s (2.2 mph)
Measurement Definition	Unit vector components of wind direction are accumulated every three seconds for duration of logging interval. Average direction is calculated from the average of these.
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F)
Environmental Rating	Weatherproof
Service Life	4 to 6 years typical depending upon environmental conditions
Housing	Injection-molded housing and vane, static dissipating base, lead-free silicon bronze nose, and aluminum mounting rod.
Bearing Type	two shielded stainless steel ball bearings
Turning Radius	Approximately 13.5 cm (5.25 in.)
Dimensions	46 x 20 cm (18 x 8.5 in) including 1.27 cm (0.5 in) diameter mounting rod, 2.5 mm (0.1 in) drip overhang
Weight	Approximately 370 g (13 oz)
Number of Data Channels	1
Measurement Averaging Option	Automatic averaging (see Measurement Definition)
Cable Length Available	3.5 m (11.5 ft)
Length of Smart Sensor Network Cable	0.5 m (1.6 ft)
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)
Part Number	S-WDA-M003

A single HOBO Weather Station logger can accommodate 15 data channels and up to 100 m (325 ft) of smart sensor cable (the digital communications portion of the sensor cables).

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- ▶ Email sales@onsetcomp.com
- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
- ▶ Fax 1-508-759-9100

Technical Support (8am to 8pm ET, Monday through Friday)

- ▶ Contact Product Support www.onsetcomp.com/support/contact
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