

S-WDA-M003

## Wind Direction Smart Sensor

A research-grade plug-and-play sensor that provides average wind direction for the measurement interval.



### Supported Measurements

Evapotranspiration, Wind

### Features

#### Contact Us

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

- Email [sales@onsetcomp.com](mailto: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 5pm ET, Monday through Friday)

- Contact Product Support [www.onsetcomp.com/support/contact](http://www.onsetcomp.com/support/contact)
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

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## Wind Direction Smart Sensor (S-WDA-M003) Specifications

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