



M-CAA Full Crossarm recommended



## Wind Direction Smart Sensor

HOBO® Data Logger

### S-WDA-M003 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 long life. The sensor calculates a unit vector average of the wind direction, providing data directly in degrees. The M-CAA Full Crossarm is recommended for mounting. The S-WSA-M003 Wind Speed Smart Sensor may also be required.

Measurement Range	0 to 355 degrees, 5 degree dead band
Max Wind Speed	60 m/sec (134 mph)
Accuracy / Resolution	± 5 degrees / 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 Temp. Range	-40°C to +70°C
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
Dimensions	46 x 20 cm including 1.27 cm diameter mounting rod, 2.5 mm drip overhang
Weight	Approximately 370 g
No. of Data Channels	1
Measurement Averaging Option	Automatic averaging (see Measurement Definition)
Cable Length Available	3.5 m, Length of Smart Sensor Network Cable: 0.5m
CE	Complies with all relevant directives in the European Union (EU)

#### Order Information

Wind Direction Smart Sensor  
Wind Speed Smart Sensor  
S-WSA-M003 and S-WDA-M003 (Set for single package ordering)  
Full Crossarm

#### Part No

S-WDA-M003  
S-WSA-M003  
S-WSET-A  
M-CAA



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