

Solid State Wind Speed & Direction Sensor

The Model WS-MMW-005 Solid State Anemometer is a 2-dimensional, no-moving-parts wind sensor.

The sensor uses a special solid state device to measure wind speed and wind direction based on the temperature differences on the chip surface. These temperature differences are processed by a microprocessor in the sensor to produce serial output signals indicating wind speed and wind direction.

The sensor base attaches onto a flat surface with 3 bolts and the sensor head clips in to allow easy orientation to North or to the front of the vehicle or vessel in mobile applications.

SPECIFICATIONS:

General Requirements:

Power: 12VDC \pm 10% / 125mA
 Operating Temperature: -25°C to +70°C

Measurements:

Accuracy: Wind Speed: 0.5m/sec \pm 3% at 20°C
 Wind Direction: \pm 3° at 20°C
 Threshold: 0.2m/sec
 Wind Speed: 0-25m/s range
 Wind Direction: 0-360°
 (values for wind speed <0.5m/s are not valid)
 Response Time: <1second
 Sample Rate: 3 Hz

Environmental Protection:

Sealed to IP65

Materials:

Stapron N

Outputs:

Serial string encoding wind speed and wind direction
 Baud rate: 4800
 Data bits: 8
 Stop bits: 1
 Parity: None

Cable:

4-wire cable with shield, length 20 metres

Dimensions:

Head: 120 mm diameter x 45 mm high
 Mounting Base: 60 mm x 43 mm diameter
 Overall height: approx. 110 mm
 Base mount holes: 4 mm diameter
 Weight: 200 grams

Cable Colour Code	
White	+12 VDC / 125mA
Brown	GND (both RS232 & RS422)
Yellow	Signal + for RS422 Not used for RS232
Green	Signal - for RS-422 Rx for RS232



WS-MMW-005 shown clipped into orientation mount. Mount is bolted to a flat surface

Sensor slips into mount with cable through hole in mount & base. Sensor is orientated to North and clipped into position in mount.



Mount attaches to flat surface with 3 bolts



Flat Surface

ORDERING INFORMATION:

Model	Description
WS-MMW-005	Solid State Anemometer

WSMMW005-3.0-0

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