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 ±10% / 125mA
- Operating Temperature: -25°C to +70°C

**Measurements:**
- Accuracy: Wind Speed: 0.5m/sec ± 3% at 20°C
- Wind Direction: ±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: <1 second
- 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**

<table>
<thead>
<tr>
<th>Colour</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>+12 VDC / 125mA</td>
</tr>
<tr>
<td>Brown</td>
<td>GND (both RS232 &amp; RS422)</td>
</tr>
<tr>
<td>Yellow</td>
<td>Signal + for RS422 Not used for RS232</td>
</tr>
<tr>
<td>Green</td>
<td>Signal - for RS-422 Rx for RS232</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION:**
- Model: WS-MMW-005
- Description: Solid State Anemometer

WSMMW005-3.0-0

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