Includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to a light breeze. Includes sealed bearings for long life. The range and accuracy specifications have been verified in wind-tunnel tests. In areas where icing of the anemometer is a problem, drip rings deflect water from the joint between moving parts.

**General**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>-40° to +149°F (-40° to +65°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>Wind Speed: Solid state magnetic sensor, Wind Direction: Wind vane and potentiometer</td>
</tr>
<tr>
<td>Attached Cable Length</td>
<td>40' (12 m)</td>
</tr>
<tr>
<td>Cable Type</td>
<td>4-conductor, 26 AWG</td>
</tr>
<tr>
<td>Connector</td>
<td>Modular connector (RJ-11)</td>
</tr>
<tr>
<td>Maximum Cable Length</td>
<td>240' (73 m)</td>
</tr>
</tbody>
</table>

Note: Maximum displayable wind speed decreases as cable increases. At 140' (42 m) of cable, maximum displayable wind speed is 135 mph (60 m/s); at 240' (73 m), maximum wind speed displayed is 100 mph (45 m/s).

**Material**

- Wind Vane and Control Head: UV-resistant ABS
- Wind Cups: Polycarbonate
- Anemometer Arm: Black-anodized aluminum

**Dimensions (length x width x height)**

15.0” x 1.5” x 18.0” (381 mm x 38 mm x 457 mm)

**Weight**

1 lbs. 4 oz. (1.332 kg)

**Sensor Output**

**Wind Direction**

- Display Resolution: 16 points (22.5°) on compass rose, 1° in numeric display
- Accuracy: ±3°

**Wind Speed**

- Resolution and Units: Measured in 1 mph. Other units are converted from mph and rounded to nearest 1 km/h, 0.1 m/s, or 1 knot
- Range: 1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 322 km/h
- Accuracy: ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater
- Maximum Cable Length: 240' (73 m). Maximum wind speed reading decreases as length of cable from Anemometer to ISS increases. At 140' (42 m), maximum speed is 135 mph (60 m/s). At 240', the maximum is 100 mph.

**Input/Output Connections**

- Black: Wind speed contact closure to ground
- Red: Ground
- Green: Wind direction pot wiper (20KΩ potentiometer)
- Yellow: Pot supply voltage

**Wind Speed Translation Formula**

\[ V = \frac{P \times 1600}{2.25 \times T} \]  

\( V \) = speed in mph, \( P \) = no. of pulses per sample period, \( T \) = sample period in seconds

**Wind Direction Translation**

Variable resistance 0 - 20KΩ; 10KΩ = south, 180°

**Package Dimensions**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Package Dimensions (Length x Width x Height)</th>
<th>Package Weight</th>
<th>UPC Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6410</td>
<td>17.75” x 10.50” x 3.00” (451 mm x 267 mm x 76 mm)</td>
<td>2.0 lbs. (.9 kg)</td>
<td>011698 00237 5</td>
</tr>
</tbody>
</table>