Vantage Pro2™ Accessories

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**

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

**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 open drain to ground
- Red: Ground
- Green: Wind direction pot wiper (20KΩ potentiometer)
- Yellow: Pot supply voltage

**Wind Speed Translation Formula:**

\[ V = P(2.25/T) \]

(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>
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