Model 106 Current Meter

The Model 106 Current Meter is a light weight, designed for real time current measurement or short to medium term autonomous deployments, for use in rivers and coastal applications, or from small boats, is simple to use with either the Windows based PC software supplied, or an optional dedicated display unit.

Data Acquisition

The current meter works on a basic 1 second cycle, during which the impeller counts are taken and a single compass heading reading is made. From this, East and North velocity vectors arecalculated, which are then summed over the averaging period. The additional parameters of temperature and pressure (if fitted) are sampled once every sample period, and averaged over the averaging period.

Data Recovery

Direct to PC via communications port.Maximum RS232 data rate of 19200 baud.

Switching On/Off

The meters are switched on and off through software control, either by the DataLog™ software or by using the Model 8008 CDU. However, for autonomous, self-recording operation the 106 is supplied with a Sub Conn switch cap that fits in place of a direct cable connection.

Sensors:

Speed
Type: High Impact Styrene Impeller
Size:125mm diameter by 270mm pitch
Range: 0.03 to 5m/s
Accuracy: ±1.5% of reading above
0.15m/s±0.004m/s below 0.15m/s

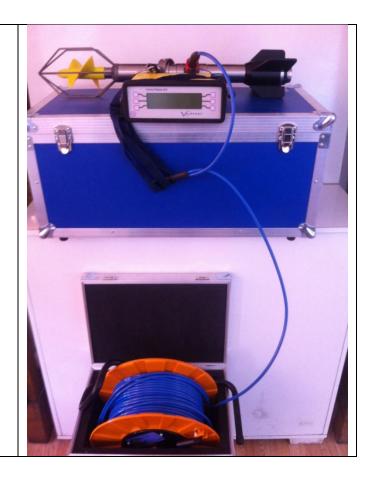*Direction*
Type: Flux gate compass
Range: 0 to 360°
Accuracy: ± 2.5°
Resolution:0.5°

Temperature
Type: Thermistor
Range:-5 to 35°C
Accuracy:± 0.2°C
Resolution:0.01°C

Pressure
Type:Strain Gauge Transducer
Range:50, 100, 200 or 500 dBar
Accuracy:± 0.2% Range.
Resolution:0.025% Range

Wireless Weather Station Vantage Vue

Vantage Vue gives you all the weather data you need:

• Inside/Outside Temperature
• Inside/Outside Humidity
• Barometric Pressure
• Wind Speed and Direction
• Dew Point
• Rainfall

In addition to displaying current weather conditions and trends, Vantage Vue also boasts the innovative Weather Center button that displays weather variables over the last 25 days. Used with the optional WeatherLink® data logger and software, you'll be able to run additional analyses.

Graphs : Graphs the last 25 hours, days or months.View up to 50 graphs for temperature, rain, rain rate, wind and barometric pressure—all on the console.

Alarms: Set 22 simultaneous, different alarms to warn of dangers such as high winds, freezing temperatures, rain rate, heat index, flood warning and more.