The Micro-Wave River Velocity Portable Meter gives you precise speed measurement from a stationary position outside the body of water. This will help you gain accurate water speed measurement, designed specifically to measure streams and rivers. The Micro-Wave River Velocity Meter Portable is perfect tool for flood management applications.

The Micro-Wave River Velocity Meter Portable is extremely valuable for measuring water surface velocity during high velocity flows and flood conditions where using contact measurement instruments pose a risk to safety.

**FUNCTIONS**

- Touchscreen controls
- Built in data logger with automatic date and time information.
- Allows scientists to determine the surface velocity of water
- Includes cosine error correction, allowing the unit to compensate for horizontal and vertical angles
- Wide velocity flow range (0.2 – 20 m/s)
- Powered by Replaceable & rechargeable Li-ion batteries
- Accepts tripod mounting
- User friendly measurement and reading
- Data port for computer.
- Internal cosine error correction, allowing the unit to compensate for vertical angles up to 60 degrees

**Measurement Specifications**

<table>
<thead>
<tr>
<th>Minimum Velocity</th>
<th>0.2 m/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Velocity</td>
<td>20 m/s</td>
</tr>
<tr>
<td>Measurement Accuracy</td>
<td>± 0.3% - Speeds are rounded down to the nearest tenths of a unit</td>
</tr>
</tbody>
</table>

**Mechanical specifications:**

- **Weight:** 1.2 kg (2.4 lb)
- **Dimensions:** L 21.8 cm (9.2 in), H 25.9 cm (10 in), D 7.9 cm (3.2 in)
- **Case Material:** Die Cast Aluminum & Composite (PVC)

**General specifications**

- **Units:** MPS (meters-per-seconds), FPS (feet-per-second), KPH (kilometres-per-hour), MPH (miles-per-hour) and Knots
- **Horizontal Cosine:** 0° - 60°
- **Sensitivity setting:** X-II
- **Antenna Parameters**
  - **Type:** Ka-Band
  - **Nominal Transmission Frequency:** 34.7 GHz
  - **Nominal Horizontal Beam width:** 12° (+/- 1°)
  - **Polarization Circular**
  - **Nominal Microwave Power Output:** 15 mW nominal mW
  - **Maximum Aperture Power Density:** 1 mW/cm²

**Environment**

- **Ambient Temperatures:** -22°F to +158°F, -30°C to +70°C
- **Maximum Humidity:** 90% relative humidity at 99°F (37°C non-condensing)

**Supply Voltage Range:** 7.2VDC - 20VDC

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Replaceable Li-ion batteries, 18V / 1.3Ah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td></td>
</tr>
<tr>
<td>Standby</td>
<td>9000 amperes</td>
</tr>
<tr>
<td>Antenna on</td>
<td>9.450 amperes</td>
</tr>
</tbody>
</table>

For more information visit [www.nsy.com.cn](http://www.nsy.com.cn)