



MICRO-WAVE RIVER VELOCITY METER PORTABLE

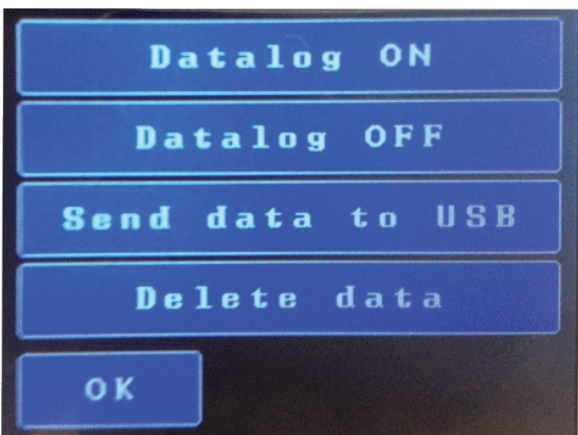
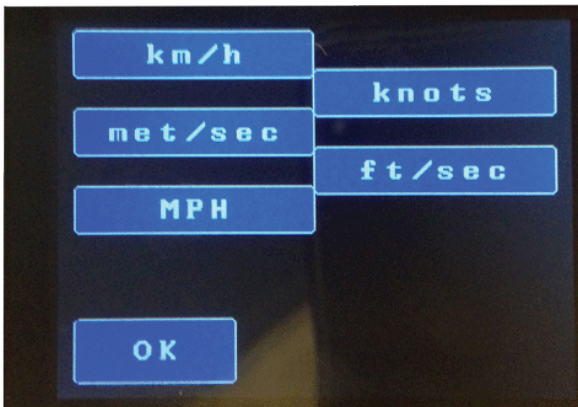


The Micro-Wave River Velocity Portable Meter gives you precise speed measurement from a stationary position outside the body of water. This will help you gain accurate water speed measurement, designed specifically to measure streams and rivers. The Micro-Wave River Velocity Meter Portable is perfect 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	
Minimum Velocity	0.2 m/s
Maximum Velocity	20 m/s
Measurement Accuracy	± 0.3% - Speeds are rounded down to the nearest tenths of a unit
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 Aluminium & 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	0-8
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/cm ²
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)
Water resistance meets International Robustness Standard IEC 529:1989 and European Community Standard EN 60529	
Voltages	
Supply Voltage Range	7.2VDC – 20VDC
Power Supply	replaceable Li-ion batteries, 18V / 1.3Ah
Power Consumption	
Standby	0.200 amperes
Antenna on	0.450 amperes