

HANDHELD SURFACE VELOCITY FLOW RADAR (SVR)

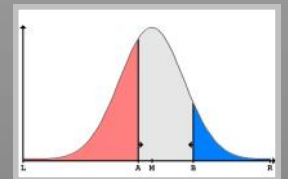
"WHEN VERSATILITY COUNTS"



POWERED BY
Makita

Viatronics SVR provides superior performance with unmatched features !

- Full color LCD Touchscreen for easy controlling.
- Industries most accurate flow calculation is based on "Rolling Median" which is calculated from 10 samples at a time.
 - New samples will update Median calculation continuously
 - Vortexes and whirlpools are automatically filtered out.
- Built in Data Logger with date & time information.
- Upgradable software.
 - New calculation options, functions & interface languages can be added later.
- Optional GPS for saving GPS coordinates with flow, date & time information
- Sealed construction for maximum weather protection.
- IP67 classified computer interface for logged and raw data output.
- Selectable measurement units, Mps, Fps, Kph, Mph and Knots.
- Automatic horizontal & vertical cosine angle correction.
 - Built in tilt sensor detects & correct automatically cosine error caused by vertical angle.
- Powered by Makita .
 - Long operation hours with high quality Li-ion battery system.
 - Batteries widely available in super markets & hardware stores for years to come.



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VIATRONICS SVR

Accurate Water -Speed Measurement Designed specifically to measure streams and rivers, the SVR gives you precise speed measurement from a stationary position outside the body of water. The SVR is perfect tool for flood and wastewater management applications.

The SVR is extremely valuable for measuring water surface velocity during high velocity flows and flood conditions where a using contact measurement instrument poses 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 Makita, 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

TECHNICAL SPESIFICATIONS

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