

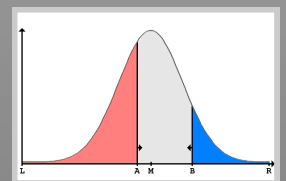
# HANDHELD SURFACE VELOCITY FLOW RADAR SVR-3 PRO

"WHEN VERSATILITY COUNTS"



Viatronics SVR-3 Pro provides unmatched performance & features !

- Sunlight Readable LCD Touchscreen with full 65 000 colors
  - 800 cd/m<sup>2</sup> Luminance with 1000:1 contrast and full 160 viewing angle.
- 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, Cmps, 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 (0.1 – 80 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 vertical angles up to 60 degrees



## TECHNICAL SPESIFICATIONS

### Measurement Specifications

Minimum - Maximum Velocity  
Measurement Accuracy

0.1 - 80 m/s  
± 0.3% - Speeds are rounded down to the nearest tenths of a unit

### Mechanical specifications:

Weight  
Dimensions  
Case Material

1.5 kg (3.3 lb)  
L 19 cm (7.5 in), H 26.4 cm (10.4 in), W 8.6 cm (3.4 in)  
Die Cast Aluminium & Composite (PVC)

### General specifications

Units

MPS (meters-per-second), CMPS (centimetres-per-second) FPS (feets-per-second), KPH (kilometres-per-hour), MPH (miles-per-hour) and Knots

Horizontal Cosine Angle Correction  
Sensitivity / range setting

0 °- 60 °  
0 - 8 / up to 100 meters away depending measurement conditions

### Antenna Parameters

Type / Nominal transmission frequency  
Polarization / Beam width  
Nominal Microwave Power Output  
Maximum Aperture Power Density

Ka-Band / 34.7 GHz  
Circular / 12° (+/- 1°)  
15 mW nominal  
1 mW/cm<sup>2</sup>

### Touchscreen Parameters

Size / Type  
Resolution (pixels) / Colors  
Luminance / Contrast  
Viewing angle / Backlight

2.4" / IPS LCD  
320 x 240 / 65 000  
800 cd/m<sup>2</sup> / 1000:1 (SUNLIGHT READABLE)  
ALL (160°) / White LED backlight

### Environment

Operating Temperatures  
Maximum Humidity  
Water resistance

-22°F to +158°F, -30°C to +70°C  
90% relative humidity at 99°F (37°C non-condensing)  
IP64, Meets International Robustness Standard according European Community Standard BS EN 60529:1992 (IEC 529:1989)

### Voltages

Supply Voltage Range  
Power Supply

7.2VDC – 20VDC  
replaceable Li-ion batteries, 18V / 1.3Ah

### Power Consumption

Standby / Antenna On

0.200 / 0.450 amperes