

# VELO

## Non-Contact Flow Velocity Monitoring System for Stormwater Infrastructure

### Component Images



### Wireless (cellular) Data Transmission

- Cat-M1 cellular (2G, 3G, 4G LTE compatible)

### Power

DEPTH Computer & Power Supply:

- Voltage – 12 VDC
- Battery Pack with Solar-Panel Recharge (5,000 mAh, Modular)
- Stainless Steel Mounting Bracket (solar panel, battery pack, computer)
- Stand-Alone Galvanized Steel Pole (drive-in base)

Flow Velocity Sensor:

- Input Voltage Range – 12 VDC

### Exposure Allowance & Compliance

- FCC and RoHS
- Computer & Battery Enclosure – IP67
- Integral Cellular Antenna in IP67 Enclosure
- Flow Velocity Sensor – Submersible (IP 68 / NEMA 6P)
- Direct-Bury Cabling (computer to sensor)
- Operating Temperatures:
  - Fahrenheit: -4 to 140 deg F
  - Celsius: -20 to 60 deg C

### Specifications, Installation & Applications

Data Acquisition Rate	10-min (std)
Range	0.98 ft/s to 19.7 ft/s
Accuracy	+/- 1.5% of reading +/- 2.0 in/s
Min. separation from high-water level	10 inches
Max. separation from low water level	10 feet
Installation Angle	45 degrees
Post-Construction Installation	
Open Channel (non-pressurized) Systems	
Data Acquisition Rate	10-min. (std)

### Features



Nationwide cellular connectivity (Wi-Fi option)



Flow velocity measurements for:

- Round pipe systems
- Trapezoidal channel systems
- Elliptical pipe systems
- Other custom open channels
- Non-pressurized flow



Browser-based dashboard (viewing and data download). Advanced notice of potential problems. Data visualization. Data-driven maintenance notification.



Flow velocity monitoring system to complement other sensor systems (synchronized data)

### Maintenance (low to zero)

- Modular Plug-and-Play
- Remote Health Assessment of Battery via Dashboard
- Visual Inspection of Solar Panel (bi-annual)
- Visual Inspection of Sensor (bi-annual)