

# ShortBoard FLOW MONITORING SYSTEM

Area Velocity Flow Meter With Wireless Communications

# FlowWAV

Measured by the Quality of Your Data.



### Simple, Reliable, Proven.

The compact and lightweight FloWav ShortBoard Model Area Velocity Flow Meters combine our area velocity measurement technology with proven RTU (Recording Telemetry Unit) technology to provide a cost-effective, accurate and reliable way to measure flows.

### Advanced Measurement Technology

The ShortBoard Models 1000 and 2000 come with a Pipeline PSA-AV sensor, a fully integrated, state-of-the-art, area velocity sensor. The PSA-AV combines proven continuous wave Doppler measurement technology with the signal processed utilizing state-of-the-art Progressive Spectral Analyzer\* technology to provide an accurate, reliable, and low power consumption way to measure velocity.

### Wireless Communication

Wireless communication is supported via packet switched cellular (e.g. 1xRTT or GPRS) and multiple antenna options are available, including a burial antenna that may be embedded in the street pavement producing a complete underground wireless monitoring solution. Additionally the Shortboard is capable of Communicating via: Local Connection/ Cellular/Land-line Telephone/Burial Antenna Option

### ShortBoard Features:

- Lowest cost wireless area velocity meter
- Most advanced sensor technology available
- Easy to use
- Flexibility with quantity/site conditions
- Low power consumption
- Compact and lightweight
- Optional rain logger

### Applications:

- I/I Studies
- Sewer Flow Metering
- Irrigation Systems
- CSO Monitoring
- Storm Water

TECHNICAL SPECIFICATIONS

# ShortBoard FLOW MONITORING SYSTEM



MANUFACTURED  
IN THE USA

## SHORTBOARD MODEL 2000 SPECIFICATIONS

Model Type	Area Velocity Flow Meter
Sensor Inputs	One or two sensors, any combination
	2x Pipeline model PSA-AV
	Pipeline model PSA-AV + StingRay Ultrasonic
Data Recording	Sample Rate: 3/sec up to 8 hours, each channel
	Data Interval: 3/sec up to 8 hours, each channel
Memory	Size: 512 kbytes RAM; 220 kbytes Data Storage
	Storage Method: wrap-around (first-in, first-out)
	Data Capacity: dynamically allocated to active
	Sensor Channels: 50,000 values per channel
Communications Options	Local RS-485
	Packet Switched Cellular
	1XRTT or GPRS
	Factory installed single 6V alkaline lantern battery
	Eveready Energizer Model 529
Battery Life Examples	Sample Rate: 5 minutes
	Battery Life: 1 to 4 months
	Sample Rate: 15 minutes
	Battery Life: 3 to 12 months
External Power	9 to 15 Vdc @ 1 A maximum
Enclosure	4.5 inch dia by 15.4 inch high
	Weight: 7 pounds
	Material: PVC
	Rating: IP67 (NEMA 6)
Temperature	0 to 70 deg C
Software	S-3PC Telogers for Windows
	DTU Palm Pilot with Telog software
	S-3EP Telog Enterprise

## AREA VELOCITY SENSOR

Model Type	Pipeline Model PSA-AV, Area Velocity
Material	Epoxy encapsulated PVC housing
Dimensions	0.90 by 1.85 by 6.0 inch (height by width by length)
Cable	Urethane sensor cable with air vent
Cable Length	35 feet (custom lengths available on request)
Velocity Sensor	Doppler ultrasonic, twin PZT disks
	Operating Temperature: 32 to 160 deg F
	Typical minimum depth: 0.90 inch
	Operating Range: -5 to +20 ft/s
	Accuracy: +/-2% of reading
Pressure Sensor	Pressure Sensor with Ceramic Diaphragm
	Type: Ceramic Piezoresistive
	Range: 0 to 15 feet
	Maximum Allowable Range: 45 feet
	Accuracy: +/-0.25% full scale
	Compensated Range: 40 to 90 deg C

## OPTIONAL ULTRASONIC LEVEL SENSOR

Model Type	M-30 Ultrasonic Level Sensor
Material	PVC, Custom PPA
Dimensions	1.90 by 3.08 inch (diameter by length)
Cable	5 conductor 22 AWG, PVC jacket
Cable Length	35 feet (custom lengths available on request)
Connector	8-pin circular connector rated IP67
Frequency	95 khz, nominal
Beam Angle	8 degrees conical
Operating Range	1 to 15 feet
Resolution	0.01 inch
Temperature	-4 to 149 deg F



Measured by the Quality of Your Data.

**FloWav, Inc.**  
Hershey Square #217  
1152 Mae Street  
Hummelstown, PA 17036

[www.FloWav.com](http://www.FloWav.com)  
1 (855) 2-FloWav  
Email: [Sales@FloWav.com](mailto:Sales@FloWav.com)

