



# FP111 Global Flow Probe

Digital water velocity meter



- Digital display in ft/sec or m/sec
- Records 30 data sets for later analysis
- Rain-proof digital computer
- Highly accurate easy flow monitoring
- Debris shedding turbo-prop
- Lightweight, rugged, and reliable
- Telescoping handle with staff gauge
- Padded carrying case for easy storage
- CE Certified
- Used by water professionals worldwide for over 12 years
- Ideal for measuring flows in streams, rivers, canals, stormwater, wastewater and industrial process waters

## Description

The Global Water Flow Probe is a highly accurate water velocity instrument for measuring flows in open channels and partially filled pipes. The water velocity probe consists of a protected water turbo prop positive displacement sensor coupled with an expandable probe handle ending in a digital readout display. The water flow meter incorporates true velocity averaging for the most accurate flow measurements. The Flow Probe is ideal for storm water runoff studies, sewer flow measurements, measuring flows in rivers and streams, and monitoring velocity in ditches and canals.

### Turbo-Prop Sensor:

The Flow Probe has a unique Turbo-Prop propeller sensor that uses the positive displacement technique for velocity sensing. The Turbo-Prop is designed to shed debris and is protected inside a 2 inch diameter housing. The probe housing may be placed directly on the bottom of pipes or streambeds for measuring low flows down to 2 inches in depth. The flow meter propeller rotates freely on its shaft with no mechanical interconnections for minimal friction. The Turbo-Prop, is easily removed for cleaning or replacement.

### Water Velocity Computer

The water velocity computer receives an electrical signal from the propeller, amplifies the signal, and converts the reading to feet per second (or meters per second, depending on programming). The large LCD screen displays average, minimum, and maximum water velocity readings. Up to 30 sets of data can be stored in the computer. These data points can be reviewed on the computer screen for later analysis. The computer has a water-resistant housing and incorporates a unique four-button operation for changing functions and resetting the display. The water velocity computer is powered by a non-replaceable battery that will last approximately five years with normal use. A low battery warning will also display as appropriate.

### Flow Probe Handle

The Flow Probe handle can telescope from 3.7 feet to 6 feet in length (FP111) or 5.5 feet to 15 feet (FP211). The handle is constructed of anodized aluminum for light weight and long life. The 15 foot length of the FP211, Flow Probe, allows for measuring sewer flows from street level and measuring stream flows from low bridges. A 3-foot mylar coated staff gauge (graduated in hundredths of a foot and centimeters) is attached to the lower section of the water velocity probe for instant water depth measurements and accurate propeller positioning.

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## Specifications

*Range:* 0.3-19.9 FPS (0.1-6.1 MPS)

*Accuracy:* 0.1 FPS

*Averaging:* True digital running average. Updated once per second.

*Display:* LCD, Glare and UV Protected

*Control:* 4 button

*Datalogger:* 30 data sets, MIN, MAX, and AVG

*Features:* Timer, Low battery warning

*Sensor Type:* Protected Turbo-Prop propeller with magnetic pickup.

*Weight:*

*Instrument:* 2 lbs. (0.9 kg) (FP111), 3 lbs. (1.4 kg) (FP211)

*Shipping:* 10 lbs. (4.5 kg) (FP111), 13 lbs. (5.9 kg) (FP211)

*Expandable Length:* 3.7 to 6 ft (1.1 to 1.8 m) (FP111); 5.5 to 15 ft (1.7 to 4.6 m) (FP211)

*Materials:*

*Probe:* PVC and anodized aluminum with stainless steel water bearing

*Computer:* ABS/Polycarbonate housing with polyester overlay

*Power:* Internal Lithium Battery, Approx 5 year life, Non-Replaceable

*Operating Temp:* -4° to 158° F (-20° to 70° C)

*Storage Temp:* -22° to 176° F (-30° to 80° C)

*Carrying Case:* The Flow Probe is shipped in a padded carrying case.

*Approvals:* CE



## Options and Accessories

### FP111 Flow Probe

(3.7' to 6' handle) including carrying case. Note pole color of shipped instrument may be different than shown

### FP111-S Flow Probe

(3.7' to 6' handle w/swivel) including carrying case. Note pole color of shipped instrument may be different than shown



### FP211 Flow Probe

(5.5' to 15' handle) including carrying case. Note pole color of shipped instrument may be different than shown.

### FP211-S Flow Probe

(5.5' to 15' handle w/swivel) including carrying case. Note pole color of shipped instrument may be different than shown.



### Flow Probe Replacement Parts:

BA2000 Digital Flow Computer



BG0000 Prop/Bushing/Screw Kit

00-155 FP111 Carrying Case

00-082 FP211 Carrying Case

### Flow Probe Accessories:

BA2010 Alignment Fin

