

Digital Water Velocity Meter

Global Water FP111/FP211/FP311 Flow Probes

Global Water Flow Probes are highly accurate water velocity instruments for measuring flow in open channels and partially filled pipes. The water velocity probe consists of a protected water turbo prop positive displacement sensor coupled to an expandable probe handle with a digital readout display. The water flow meter incorporates true velocity averaging for the most accurate flow measurements. Use for measuring flows in rivers and streams and monitoring velocity in ditches and canals.

FEATURES

- 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 inflow and infiltration studies and industrial process waters



OPERATION

Turbo-Prop Sensor:

The Flow Probe incorporates the 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" (5 cm) diameter housing. The probe housing may be placed directly on the bottom of pipes or stream-beds for measuring low flows down to 2" (5 cm) 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.

Probe Handle:

The Flow Probe handle can telescope from 3.7 to 6 feet (1.1 to 1.8 m) (FP111), 5.5 to 15 feet (1.7 to 4.6 m) (FP211) and 2.5 to 5.5 feet (.7 to 1.7 m) (FP311) in length. It is constructed of anodized aluminum for light weight and long life. The Flow Probe may be easily extended up to 25 feet (7.6 m) in length using PVC pipe and an extension cable. This allows for sewer flow measurements from street level and measuring of stream flows from low bridges. A 3 ft. (.9 m) 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.

True 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 time and date stamped data points can be stored in the computer with the push of a button. 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. Low battery warning will also display as appropriate.

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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Global Water FP111/FP211/FP311 Flow Probes

SPECIFICATIONS

- Range:** 0.3-19.9 FPS (0.1-6.1 MPS)
- Accuracy:** 0.1 FPS (.03 MPS)
- Averaging:** True digital running average. Updated once per second.
- Display:** LCD, glare and UV protected
- Control:** 4-button
- Datalogger:** 30 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), 2.8 lbs./1.3 kg (FP311)
 - Shipping 10 lbs./4.5 kg (FP111), 13 lbs./5.9 kg (FP211), 19 lbs./8.6 kg (FP311)
- Expandable Length:**
 - FP111 3.7 to 6 ft. (1.1 to 1.8 m)
 - FP211 5.5 to 15 ft. (1.7 to 4.6 m)
 - FP311 2.5 to 5.5 ft. (.7 to 1.7 m)
- 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



Large LCD display and 4-button control



Protected turbo-prop propeller

FLOW PROBE OPTIONS

- FP111**
Flow Probe with 3.7- 6 ft. (1.1-1.8 m) handle and carrying case. Note pole color of shipped instrument may be different than shown
- FP211**
Flow Probe with 5.5 -15 ft. (1.7-4.6 m) handle and carrying case. Note pole color of shipped instrument may be different than shown.
- FP311**
Flow Probe with 2.5-5.5 ft. (.7-1.7 m) handle and carrying case. Note pole color of shipped instrument may be different than shown.

FP111-S
Flow Probe with 3.7- 6 ft. (1.1-1.8 m) swivel handle and carrying case. Note pole color of shipped instrument may be different than shown



FP211-S
Flow Probe with 5.5-15 ft. (1.7- 4.6 m) swivel handle and carrying case. Note pole color of shipped instrument may be different than shown.



FLOW PROBE ACCESSORIES

FP-FIN Flow Probe Alignment Fin Kit
Includes alignment fin and mounting hardware.



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