

An economical alternative to high priced flow meters, the Flow Probe is perfect to obtain water flow data for runoff studies for flood control and planning, determine flow volumes in ditches and sewers, measure flow in rivers and streams for water use and planning data, and for any application requiring the measuring of open flow velocity.

Features

The anodized aluminum handle is extendible from three to six feet, and can be extended up to 25' using regular PVC pipe and a stereo headphone extension cord. Also, the display can be read remotely by removing the display from the handle (it pops off) and reconnecting with a headphone extension. The propeller sensor is housed inside of a 2" diameter pipe, which protects it from debris. Since the propeller is the only moving part there is minimal cleaning and maintenance, and it is easily removed with a screwdriver. The sensor works by way of a magnet on the propeller which passes a pickup coil with each revolution. Pulses are transmitted to the waterproof display atop the handle by the coiled cable inside the handle. The display has simple two button operation and large LCD numbers. It displays instantaneous velocity, true average velocity, maximum velocity, time-of-day and stop watch, and is powered by two watch type batteries which will last up to two years. Display can read out in either Metric or English units (decimeters/sec. or ft./sec.). A version which has a transposed decimal point so that unit is meters/sec. is also available as a special order. The probe comes in a foam padded rifle type case for safe transport and storage.

Use & Operation

The Flow Probe is calibrated at the factory, but can be recalibrated by use of the setup sequence quite easily. This is normally required only after replacing the batteries. The right button alternates between functions and the left button picks the option. Pushing both buttons for one second will zero the display. The probe is merely inserted into the water and the desired function selected. It can operate in as little as two inches of water depth.

Specifications

Range:	0.3–25 fps, 1–80 dps (0.1–8 mps)
Accuracy:	Velocity - 0.5 fps
Average Velocity:	0.1 fps
Weight:	2 pounds (1kg)
Size:	3–6' or 5–15' handle
Sensor housing:	2" dia. x 3"L

Batteries:	Two watch type
Operating temp:	0°–120°F
Materials:	PVC, aluminum, brass bearing
Sensor:	Electro-magnetic pickup

Additional Information

The actual flow meter is in reality a bicycle computer which has been adapted for this application, and thus has two functions which are skipped over in the directions. The "D" stands for distance traveled and the "A" is for altitude. The unit has an internal barometer/altimeter which can be set by selecting that function and then depressing the right button for three seconds until the up and down arrows appear, then adjusting the altitude with the left button. Another push of the right button resets it to the normal operating mode, where the unit will display current altitude like any other electronic altimeter. The flow probe is available as a special order with a longer tube (5–15') for monitoring routinely from greater heights or for greater depths.

Common Questions

- Q.** How does the average velocity work?
- A.** A running average is started when the probe is inserted into water, or when the readout is zeroed while submerged. As long as the probe remains in the flow the averaging continues. When removed from the water the average value is frozen on the display until reset.
- Q.** Can it read in metric also?
- A.** Yes, see Features section for explanation.
- Q.** What is the minimum depth in which the probe can be used?
- A.** Two inches.

Ordering Information

113098 Global Flow Probe 3–6'
113097 Global Flow Probe 5–15'

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