

AquaCalc 5000 Flow Computer

The AquaCalc 5000 is an electronic stream flow measurement and data logging device designed for use with USGS Price-type current meters. The hand held AquaCalc 5000 contains algorithms for both Type AA and Pygmy current meters, thereby displaying the velocity at each subsection. Total stream flow can be displayed by simply pushing a button. This replaces the headphone, stopwatch, rating table and notepad for a much more efficient way to make discharge measurements.

The AQ 5000 was designed to be used with the standard Type AA (622) or Pygmy (625) current meter and requires no modifications to the meters.



This allows maximum versatility so that the same meter can be used with either headphones or AQ 5000.

It can also be used with both wading rod or cable suspension by sounding reel.

This unit does so much more than just a digital velocity indicator because it not only displays velocity but at each subsection either 0.2, 0.6, 0.8 measurements can be entered as well as the distance between each station.

Then at the end of the measurement a single button "Calculate Discharge" is pushed and the total flow in CFS or CMS is displayed.

During the measurement the display continuously shows velocity, time, revolutions so the measurement can be observed during the full 40 second averaging period or this time can be programmed for any non-standard time.

Many other features include programmable for non-standard meters (horizontal axis propeller meters), angle correction, surging flow compensation, automatic power off.

At the end of the day or in the field with a laptop PC the data collected can be downloaded by RS-232 cable and software diskette (both provided) to your office computer for data analysis and report printing. Data can be printed out in standard USGS discharge measurement format.



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Featuring

- ▶ Compatible with Price AA and Pygmy type current meters
 - ▶ Accepts non-standard meter ratings
 - ▶ Stores 9 complete cross sections, with 99 vertical measurements for each cross section
 - ▶ LCD display
 - ▶ 20 hour battery life with low battery warning. Battery can be changed without loss of data
 - ▶ On-board memory backup
- When AquaCalc is attached to a top-set wading rod, stream measurement becomes a one-handed operation.



AquaCalc 5000



Orthotic



RS-232 serial cable

AquaCalc includes:

- ▶ One-year warranty
- ▶ AquaCalc-to-PC software and RS-232 serial cable for uploading data to your personal computer
- ▶ Top-set rod and sounding reel interface cable
- ▶ Instruction manual
- ▶ Hardback carrying case

DOS and Windows-based programs can convert the data into a format similar to the USGS Measurement Field Notes Front Sheet. Optional software can plot data in graph form, which can help inexperienced users understand the data at a glance.

Specifications

▶ Velocity range	0.1 to 25 FPS (0.03 to 10 mps)
▶ Volume range	999,999.99 CFS
▶ Temperature range	-20 degrees C to 70 degrees C
▶ Size	4" x 7" x 1" (10 cm x 18 cm x 3 cm)
▶ Weight	1 lb. (.4 kg)



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