

IOP 017A.2
Effective Date: 1/09/2017
Replaces IOP 017A.1
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U.S. Fish and Wildlife Service
Marquette Biological Station
3090 Wright Street
Marquette, Michigan 49855
U.S.A.

and

U.S. Fish and Wildlife Service
Ludington Biological Station
5050 Commerce Drive
Ludington, Michigan 49431
U.S.A.

and

Fisheries and Oceans Canada
Sea Lamprey Control Centre
1219 Queen Street East
Sault Ste. Marie, Ontario P6A 2E5
Canada

INSTRUMENT OPERATING PROCEDURE

INSTRUMENT:

Stream Flow Digitizer

MODEL:

AquaCount Digitizer

MANUFACTURER:

Rickly Hydrological Co.

PRECAUTIONS:

Computer could be set for wrong type meter (i.e.: Pygmy or Price AA).
Computer is water resistant only. Take precautions to avoid excess rain exposure.
If dropped in water, open back cover and dry with a hair dryer as soon as possible.

POTENTIAL INTERFERENCES

Dirty or corroded phone plug on gauging rod. Clean with steel wool.
If battery is low, the decimal point in the time display will turn off. Open battery compartment on back of computer and replace 9-volt alkaline battery.
If display locks up, disconnect and reconnect battery and resume operation.

SAFETY

No special safety concerns

PROCEDURES:

1. Connect AquaCount to top of gauging rod.
2. Press the **ON/SELECT** button.
3. Screens will show **1-1** and **000.0**
4. Press "**Count**" and screens will show **1-1** and **40.0**.
5. Place current meter at desired location in the stream and press "**Count**" again to begin measurement.
6. After at least 40 seconds the meter will stop counting and display the number of revolutions and time. Record the revolutions and time (rounded to the nearest second) on a discharge measurement form.
7. Press "**Count**" again and it will display the velocity in feet/second. Record velocity on a discharge measurement form.
8. Go back to step 2 for next measurement.

MAINTENANCE:

Replace battery when needed.
Wipe with dry soft cloth before storing.

REFERENCES:

Rickly Hydrological Co. AquaCount Current Meter Digitizer Instruction Manual.

This procedure has been reviewed and approved by the undersigned representative of the U.S. Fish and Wildlife Service.

REVIEWED/APPROVED _____ DATE _____
Field Supervisor (U.S.)