

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
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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 Computer

MODEL:

AquaCalc 5000

MANUFACTURER:

JBS Instruments

PRECAUTIONS:

Computer could be set for wrong type meter (i.e.: Pygmy or Price AA).
Computer could be set to use wrong rating table.
Computer is water proof for rain and humidity, but will not survive being submerged.
If dropped in water, open back cover and dry with a hair dryer immediately.

POTENTIAL INTERFERENCES

Dirty or corroded phone plug on gauging rod. Clean with steel wool.
If battery is low, **low battery** will appear on the display. Open battery compartment on back of computer and replace 9-volt alkaline battery.

SAFETY

No special safety concerns

PROCEDURES:

1. Press the ON button.
2. Screen will show **1=Date**
2=Time
3. Press MENU 4 times.
4. Press 1 for **TR INFO**.
5. Press 1 again for **ID & Hdwr Info**.
6. Press ENTER 6 times; screen will display **+Chg METER TYPE**.
7. Press the +/- button to select the meter you are using.
Note: if using Price AA select **PRICE AA1:1 ST2**
if using Pygmy select **PYGMY ST2**
8. Press MENU and select **2=Transect Info**
9. Set **MEAS TIME** to 40; press ENTER
10. Use +/- to change flow method to **Allow Turb Flow** and press ENTER. This will prevent the meter from resetting itself during a measurement if turbulence is detected. (At excellent gauging sites with little turbulence you can set meter to allow turbulent flow; this will increase accuracy, but the site must have no turbulence for this to work.)
11. Screen will read **+Set Est. Tot. Q**. Press MENU three times to reach the measurement screen.
12. Place current meter at desired place in stream and press MEASURE.
13. Display will run until the first full revolution after 40 seconds and then stop.
Record revolutions, time, and velocity on gauging sheet and move to site of next measurement.

MAINTENANCE:

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

REFERENCES:

AquaCalc 5000 Advanced Stream Flow Computer Operators 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.)